Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
   - Inglés
   - Idioma alternativo (español)
4. Materiales de la solicitud
5. Proyecto de permiso
6. Resumen técnico u hoja de datos

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here 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.

City Public Service of San Antonio (CN 603174244) operates V.H. Braunig Power Station (RN 100217835), an electrical power generating facility. The facility is located at 15290 Streich Road, in Elmendorf, Bexar County, Texas 78112. This application is for renewal of the existing TPDES industrial wastewater discharge permit (WQ 0001515000) with major amendment.

Once-through and auxiliary cooling water, water treatment wastes (demineralizer, reverse osmosis, water softener, neutralization basin, stormwater retention basin, weir tank), floor and yard drains, and boiler blowdown are treated by demineralizers, reverse osmosis, pH adjustment, stormwater retention, an oily water separator and a weir tank.

Proposed changes to the permit include:

1. Adding construction stormwater to specific outfalls
2. Reducing stormwater monitoring frequency
3. Changing sampling requirements for outfalls that are representative of each other
4. Adding extended chlorination or alternate techniques if necessary for zebra mussel mitigation

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /**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.

City Public Service of San Antonio (CN 603174244) opera la V.H. Braunig Power Station (RN 100217835), una planta generadora de energía eléctrica. La planta está ubicada en 15290 Streich Road, en Elmendorf, Condado the Bexar, Texas 78112. Esta solicitud es para la renovación del permiso existente de descarga de aguas residuales industriales TPDES (WQ 0001515000) con una enmienda mayor.

El agua de enfriamiento de un solo uso y auxiliar, los residuos de tratamiento de agua (desmineralizador, osmosis inversa, estanque de neutralización, estanque de retención de aguas pluviales, tanque de vertedero), los desagües de piso y patio, y el drenaje de la caldera son tratados por desmineralizadores, ósmosis inversa, ajuste de pH, retención de aguas pluviales, un separador de aguas aceitosas y un tanque de vertedero.

Las enmiendas propuestas al permiso incluyen:

1. Añadir aguas pluviales de construcción a desagües específicos
2. Reducir la frecuencia de monitoreo de aguas pluviales
3. Cambiar los requisitos de muestreo para los desagües que son representativos entre sí
4. Agregar cloración extendida o técnicas alternas si es necesario para la mitigación de mejillones cebra

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0001515000

APPLICATION. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, which owns a steam electric generating facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001515000 (EPA I.D. No. TX0063690) to authorize adding construction stormwater to specific outfalls, reducing stormwater monitoring frequency, changing sampling requirements for outfalls that are representative of each other, and adding extended chlorination or alternate techniques if necessary for zebra mussel mitigation**.** The facility is located at 15290 Streich Road, near the city of Elmendorf, in Bexar County, Texas 78112. The discharge route is from the plant site to Braunig Lake; thence to Arroyo Seco; thence to Upper San Antonio River. TCEQ received this application on March 27, 2025. The permit application will be available for viewing and copying at City Public Service of San Antonio Main Office, 6th floor, 500 McCullough Avenue, San Antonio, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.382777,29.258888&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.**

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 Public Service of San Antonio at the address stated above or by calling Ms. Summer Johnson, Environmental Analyst, CPS Energy, at (210) 353-2770.

Issuance Date: April 24, 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 PERMISO MODIFICACION

PERMISO NO. WQ0001515000

SOLICITUD. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, propietaria de una planta generadora de energía eléctrica por vapor, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación y enmienda del Permiso No. WQ0001515000 (EPA I.D. No. TX0063690) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de aguas pluviales de construcción a desembocaduras específicas, reducir la frecuencia de monitoreo de aguas pluviales, cambiar los requisitos de muestreo para las desembocaduras que sean representativas entre sí, y agregar cloración extendida o técnicas alternas, si es necesario, para la mitigación de mejillones cebra. La planta está ubicada en 15290 Streich Road, cerca de la ciudad de Elmendorf, en el Condado de Bexar, Texas 78112. La ruta de descarga es del sitio de la planta a el Lago Braunig, de allí a Arroyo Seco, luego al curso superior del Rio San Antonio. La TCEQ recibió esta solicitud el día 27 de marzo del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la oficina principal de City Public Service of San Antonio, localizada en el 6to piso, 500 McCullough Avenue, San Antonio, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente 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=-98.382777,29.258888&level=18

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

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

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

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. 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.

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 City Public Services of San Antonio a la dirección indicada arriba o llamando a Sra. Summer Johnson, Analista Ambiental, CPS Energy, al (210) 353-2770.

Fecha de emisión 24 de abril de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

AMENDMENT

PERMIT NO. WQ0001515000

APPLICATION AND PRELIMINARY DECISION. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, which operates V.H. Braunig Power Station, a steam electric generating plant consisting of three conventional gas steam units, one combined-cycle unit, and four simple cycle dual fuel units, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001515000 to add stormwater associated with construction activity as a wastestream to Outfalls 001, 501, 701, 901, 003, 006-008, 011, 015, 017-019; reduce monitoring frequency for flow measurements from once per week to once per six months for Outfalls 501, 601, 701, 901, 003, 006-011, 013, 015-019; revise representitive sampling provisions for Outfalls 015, 017, and 018 so they are representitive of each other; add extended chlorination or alternative mussel mitigation strategies; relax mass limits for chlorine to correspond with existing concentration limits at the permitted flow rates; and update free available chlorine calculation reporting conditions. The draft permit authorizes the discharge of once-through cooling water, previously monitored effluents (PME; low volume waste sources, non-contact cooling water from the evaporative coolers, vault water, condensate water, water box drainage, wash water, water treatment wastes, cooling water, quench water, stormwater associated with construction activity and material/product storage area, stormwater from secondary containment and area stormwater runoff, condensate tank drainage, and stormwater runoff), vault water, stormwater associated with construction activity, and stormwater runoff at a daily average flow not to exceed 1,320,000,000 gallons per day via Outfall 001; stormwater runoff, stormwater associated with construction activity and the material/product storage area, vault water, stormwater from secondary containment, stormwater associated with construction activity, and stormwater from a fuel loading and off-loading area on an intermittent and flow-variable basis via Outfall 003; stormwater runoff, stormwater from secondary containment, stormwater associated with construction activity and the material/product storage area, stormwater from a fuel loading and off-loading area, condensate tank drainage, condensate water, vault water, and wash water on an intermittent and flow-variable basis via Outfalls 006, 007, 008, 011, and 013; stormwater runoff, vault water, and stormwater associated with construction activity and the material/product storage area on an intermittent and flow-variable basis via Outfalls 009 and 010; stormwater runoff, stormwater from secondary containment, stormwater runoff from material/product storage areas, vault water, and wash water on an intermittent and flow-variable basis via Outfall 016; stormwater runoff, stormwater from secondary containment condensate tank water drainage, wash water, neutralization pit water, vault water, and the emergency discharge of water treatment wastes and stormwater associated with construction activity on an intermittent and flow-variable basis via Outfalls 015, 017, and 018; and stormwater runoff from the area south of the Braunig Units, stormwater associated with construction activity and the material/product storage area, vault water, and wash water on an intermittent and flow-variable basis via Outfall 019. The TCEQ received this application on March 27, 2025.

The facility is located at 15290 Streich Road, 2.75 miles northwest of the City of Elmendorf, Bexar County, Texas 78112. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.382777,29.258888&level=18

The effluent is discharged to Braunig Lake, thence to Arroyo Seco, thence to Upper San Antonio River in Segment No. 1911 of the San Antonio River Basin. The unclassified receiving water uses are high aquatic life use for Braunig Lake. The designated uses for Segment No. 1911 are primary contact recreation and high aquatic life use.

In accordance with Title 30 Texas Administrative Code Section 307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Braunig Lake, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.
The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City Public Service of San Antonio Main Office, 6th floor, 500 McCullough Avenue, San Antonio, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications

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.

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City Public Service of San Antonio at the address stated above or by calling Ms. Summer Johnson, Environmental Analyst, CPS Energy, at (210) 353-2770.

Issued: October 20, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES INDUSTRIALES

MODIFICACIÓN

PERMISO NO. WQ0001515000

SOLICITUD Y DECISIÓN PRELIMINAR. City Public Service de San Antonio, P.O. Box 1771, San Antonio, Texas 78296, que opera la Central Eléctrica V.H. Braunig, una planta generadora de energía eléctrica a vapor compuesta por tres unidades eléctricas de vapor, una unidad de turbina de combustión de gas de ciclo combinado, y cuatro unidades de turbina de gas de ciclo simple, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas en inglés) una enmienda mayor al Permiso No. WQ0001515000 del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) para agregar aguas pluviales asociadas con actividades de construcción como una corriente de desecho en los puntos de descarga 001, 501, 701, 901, 003, 006-008, 011, 015, 017-019; reducir la frecuencia de monitoreo de mediciones de flujo de una vez por semana a una vez cada seis meses para los puntos de descarga 501, 601, 701, 901, 003, 006-011, 013, 015-019; revisar las disposiciones de muestreo representativo para los puntos de descarga 015, 017 y 018 de manera que sean representativos entre sí; agregar cloración extendida u otras estrategias alternativas de mitigación de mejillones; reducir los límites de masa para el cloro a fin de que correspondan con los límites de concentración existentes en los caudales permitidos; y actualizar las condiciones de reporte para el cálculo del cloro libre disponible. El permiso preliminar autoriza la descarga de agua de enfriamiento de paso único, efluentes previamente monitoreados (PME; fuentes de desechos de bajo volumen, agua de enfriamiento sin contacto proveniente de los enfriadores por evaporación, agua de fosa, agua de condensado, drenaje de cajas de agua, agua de lavado, residuos del tratamiento de agua, agua de enfriamiento, agua de enfriamiento rápido, aguas pluviales asociadas con actividades de construcción y con áreas de almacenamiento de materiales/productos, aguas pluviales de contención secundaria y escorrentía pluvial del área, drenaje del tanque de condensado, y escorrentía pluvial), agua de fosa, aguas pluviales asociadas con actividades de construcción y escorrentía pluvial, con un caudal promedio diario que no debe exceder 1,320,000,000 galones por día a través del punto de descarga 001; escorrentía pluvial, aguas pluviales asociadas con actividades de construcción y con áreas de almacenamiento de materiales/productos, agua de fosa, aguas pluviales de contención secundaria, aguas pluviales asociadas con actividades de construcción y aguas pluviales de un área de carga y descarga de combustible de manera intermitente y con flujo variable a través del punto de descarga 003; escorrentía pluvial, aguas pluviales de contención secundaria, aguas pluviales asociadas con actividades de construcción y con áreas de almacenamiento de materiales/productos, aguas pluviales de un área de carga y descarga de combustible, drenaje del tanque de condensado, agua de condensado, agua de fosa, y agua de lavado de manera intermitente y con flujo variable a través de los puntos de descarga 006, 007, 008, 011 y 013; escorrentía pluvial, agua de fosa, y aguas pluviales asociadas con actividades de construcción y con áreas de almacenamiento de materiales/productos de manera intermitente y con flujo variable a través de los puntos de descarga 009 y 010; escorrentía pluvial, aguas pluviales de contención secundaria, escorrentía pluvial de áreas de almacenamiento de materiales/productos, agua de fosa y agua de lavado de manera intermitente y con flujo variable a través del punto de descarga 016; escorrentía pluvial, aguas pluviales de contención secundaria, drenaje del tanque de condensado, agua de lavado, agua de la fosa de neutralización, agua de fosa, y la descarga de emergencia de residuos del

tratamiento de agua y aguas pluviales asociadas con actividades de construcción de manera intermitente y con flujo variable a través de los puntos de descarga 015, 017 y 018; y escorrentía pluvial del área al sur de las unidades generadoras de electricidad en la planta Braunig, aguas pluviales asociadas con actividades de construcción y con áreas de almacenamiento de materiales/productos, agua de fosa, y agua de lavado de manera intermitente y con flujo variable a través del punto de descarga 019. La TCEQ recibió esta solicitud el 27 de marzo de 2025.

La planta está localizada en 15290 Streich Road, a 2.75 millas al noroeste de la ciudad de Elmendorf, Condado de Bexar, Texas 78112. Este enlace a un mapa electrónico de la ubicación general de la planta se proporciona como una cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.382777,29.258888&level=18

El efluente tratado se Lago Braunig, luego hasta el Arroyo Seco, luego hasta el Río San Antonio Superior en el Segmento No. 1911 de la Cuenca del Río San Antonio. Los usos no clasificados de las aguas receptoras son elevados usos de la vida acuática para Lago Braunig y limitados usos de la vida acuática para Arroyo Braunig. Los usos designados para el Segmento No. 1911 son elevados usos de la vida acuática; y recreación sin contacto.

De acuerdo con la 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (Enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa en Lago Braunig, el cual se ha identificado que tiene altos usos en la vida acuática. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Sede de CPS Energy, Recepción de la Primera Planta, 500 McCullough Avenue, San Antonio, en el Condado de Bexar, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente 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=-98.321944,29.308611&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.

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.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

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

Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del City Public Service of San Antonio a la dirección indicada arriba o llamando a Sra. Summer Johnson, Analista Ambiental al 210-353-2770.

Fecha de emisión 20 de octubre de 2025

85 N.E. LOOP 410, SUITE 207, SAN ANTONIO, TX 78216
WWW.POWERENG.COM

March 19, 2025

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

Subject: TPDES Industrial Wastewater Permit Renewal with Major Amendment Application
City Public Service of San Antonio - V.H. Braunig Power Station
CN603174244
RN100217835
Permit No. WQ0001515000

Dear Sir/Madam:

Please find attached one original and two copies of a Texas Pollutant Discharge Elimination System (TPDES) Permit Renewal with major amendment application submitted by POWER Engineers, Inc. on behalf of City Public Service of San Antonio (CPS Energy). This application is for the renewal with major amendment of Permit No. WQ0001515000 for the V.H. Braunig Power Station in Elmendorf, Texas.

As part of this application, a Description of Permit Changes has been included that outlines several requests from CPS Energy for amendments to the existing permit during this renewal. As part of the requested changes and activities, CPS Energy has outlined requests for the addition and/or change of permit conditions, such as a condition allowing extended chlorination or alternate technique(s) for mussel mitigation, if needed during the permit term. Other requested changes include the addition of stormwater discharges associated with construction activity to several outfalls, changes in sampling procedures and frequency for several outfalls, and a change to the compliance calculation text addressing free available chlorine in the permit. Please refer to the application attachment entitled "Description of Permit Changes" for the full list of changes requested by CPS Energy for the Texas Commission on Environmental Quality's (TCEQ) consideration during this renewal.

Please note that the stormwater quality analytical data component of the application is incomplete at the time of this submittal. Complete results for samples collected at Outfall 003 have not yet been received from the laboratory. The missing data is identified on the attached application forms and will be provided to TCEQ through follow-up correspondence, once available. In addition, discharges occur infrequently from several on-site stormwater outfalls, so it was not possible to collect samples during the past year for these outfalls.

CPS Energy respectfully requests that Mr. Thomas Starr be assigned as the permit writer for this application, if possible, for consistency across the CPS Energy Power Station fleet. Mr. Starr is the permit writer for the CPS Energy Leon Creek Power Station permit renewal, which is currently in the Notice of Application and Preliminary Determination public notice step of the permitting process.

If you have any questions regarding this submittal or if you require additional information, please call me at 726-842-9715.

Sincerely,



James Robin, P.E.
Environmental Engineer

c: Summer Johnson, Environmental Analyst, CPS Energy

Attachment:

» TPDES Permit Renewal with Major Amendment Application

March 2025

TCEQ INDUSTRIAL WASTEWATER PERMIT RENEWAL APPLICATION

City Public Service of San Antonio
V.H. Braunig Power Station
15290 Streich Road
Elmendorf, Bexar County, Texas
Permit No. WQ0001515000
EPA ID No. TX0063690
CN603174244
RN100217835

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

PROJECT NUMBER:
0249452

POWER ENGINEERS
MEMBER OF WSP

ADMINISTRATIVE REPORT 1.0 – 1.1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: City Public Service of San Antonio ("CPS Energy")

PERMIT NUMBER (If new, leave blank): WQ00 01515

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

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

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

Applicant Name: V.H. Braunig Power Station

Permit No.: WQ0001515000

EPA ID No.: TX0063690

Expiration Date: September 29, 2025

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☒ Active ☐ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☐ New

☐ Renewal with changes ☐ Renewal without changes

☒ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Please refer to Description of Permit Changes attachment

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

g. Application Fee

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

h. Payment Information

Mailed

Check or money order No.: Click to enter text.

Check or money order amt.: Click to enter text.

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

Epay

Voucher number: 758941 and 758942

Copy of voucher attachment: attached

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN603174244

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

b. Legal name of the entity (applicant) applying for this permit: City Public Service of San Antonio

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

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

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

Title: Director, Environmental Credential: Click to enter text.

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

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

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

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number: 582EA000660704
Date: 03/24/2025 05:14 PM
Payment Method: CC - Authorization 0000013176
ePay Actor: JUDIE PAL
Actor Email: judie.pal@powereng.com
IP: 165.225.10.119
TCEQ Amount: $2,050.00
Texas.gov Price: $2,096.38*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name: JAMES ROBIN
Company: POWER ENGINEERS
Address: 3940 GLENBROOK DRIVE, HAILEY, ID 83333
Phone: 726-842-9715

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
758941	WW PERMIT - MAJOR INDUSTRIAL FACILITY - MAJOR AMENDMENT		$2,000.00
758942	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$2,050.00

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

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☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

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

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

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

Title: Consultant Credential: PE

Organization Name: POWER Engineers, Inc.

Mailing Address: 85 NE Loop 410, Ste. 207 City/State/Zip: San Antonio, TX 78216

Phone No: 726-842-9715 Email: james.robin@powereng.com

b. ☒ Administrative Contact ☒ Technical Contact

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: City Public Service of San Antonio ("CPS Energy")

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

Attachment: Click to enter text.

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

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

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-5010 Email: elspeed@cpsenergy.com

Attachment: Click to enter text.

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

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

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

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

Title: Director, Environmental Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 231007 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2158 Email: GRTieken@cpsenergy.com

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

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

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

Title: Director, Environmental Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: 500 Mc Cullough Ave. Mail Drop RT0601 City/State/Zip: San Antonio, TX 78215

Phone No: (210) 353-2158 Email: GRTieken@cpsenergy.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

☒ E-mail: sljohnson@cpsenergy.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

d. Public Viewing Location Information

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

Public building name: City Public Service of San Antonio Main Office Location within the building: 4th floor

Physical Address of Building: 500 McCullough Ave.

City: San Antonio, TX 78215 County: Bexar

e. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No ☐ N/A

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

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Plain Language Summary

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: Public Involvement Plan Form

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN100217835

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

b. Name of project or site (the name known by the community where located): V. H. Braunig Power Station

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

☒ Yes ☐ No ☐ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

f. Owner of land where treatment facility is or will be: CPS Energy

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

or Organization Name: Click to enter text.

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

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

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

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

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

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

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

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

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

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

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

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

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

☐ Yes ☒ No

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

☒ One-mile radius

☒ Applicant's property boundaries

☒ Labeled point(s) of discharge

☐ Effluent disposal site boundaries

☒ Three-miles downstream information

☐ Treatment facility boundaries

☒ Highlighted discharge route(s)

☒ All wastewater ponds

☐ Sewage sludge disposal site ☐ New and future construction

Attachment: Topographic Map

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Elmendorf

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

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

☐ Yes ☒ No

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

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

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Bexar, Wilson, Karnes, and Goliad

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

☐ Yes No or New Permit ☒ N/A

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

j. City nearest the disposal site: N/A

k. County in which the disposal site is located: N/A

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: N/A

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

Item 12. Miscellaneous Information (Instructions, Page 33)

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

☐ Yes ☒ No

If yes, list each person: Click to enter text.

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0001515000

Applicant Name: City Public Service of San Antonio ("CPS Energy")

Certification: I, Gregg Tieken, 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): Gregg Tieken

Signatory title: Director, Environmental

Signature: _____ Date: March 19, 2025
(Use blue ink)

Subscribed and Sworn to before me by the said Gregg Tieken

on this 19th day of March, 2025.

My commission expires on the 10th day of May, 2025.

_____
Notary Public

CATHY AL-BARATI
NOTARY PUBLIC
STATE OF TEXAS
MY COMM. EXP. 05-10-2025
ID # 12942084-3

[SEAL]

Bexar
County, Texas

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☒ The applicant's property boundaries.

☒ The facility site boundaries within the applicant's property boundaries.

☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.

☒ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)

☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.

☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.

☒ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.

☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.

☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.

☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.

☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: Affected Landowner Map

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

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: Affected Landowner Labels

d. Provide the source of the landowners' names and mailing addresses: Bexar County Appraisal District

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

☐ Yes ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: Outfall Photographs

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Supplemental Permit Information Form

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

☒ Correct and Current Industrial Wastewater Permit Application Forms
(TCEQ Form Nos. 10055 and 10411. Version dated 5/10/2019 or later.)

☒ Water Quality Permit Payment Submittal Form (Page 14)
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

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

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

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

Things to Know:

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

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

☐ N/A ☒ Landowners Labels or CD-RW attached
(See instructions for landowner requirements.)

☒ Original signature per 30 TAC § 305.44 – Blue Ink Preferred
(If signature page is not signed by an elected official or principle executive officer,

a copy of signature authority/delegation letter must be attached.)

☒ Plain Language Summary

ATTACHMENT– CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

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 603174244		RN 100217835

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	4/2/2025

☐ 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 Public Service of San Antonio

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
	17460020716	746002071	

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:

P.O. Box 1771

City	San Antonio	State	TX	ZIP	78296	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	GRTieken@CPSEnergy.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(210) 353-2158		( ) -

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.)*

V.H. Braunig Power Station

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	15290 Streich Road							
	City	Elmendorf	**State**	TX	**ZIP**	78112	**ZIP + 4**	9685
24. County	Bexar							

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

25. Description to Physical Location:	Approximately 2.75 miles northwest of the City of Elmendorf				
26. Nearest City			**State**		**Nearest ZIP Code**
Elmendorf			TX		78112

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:	29.256478		**28. Longitude (W) In Decimal:**	-98.389939	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	15	23.32	98	23	23.781

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)
4911	4931	22111	221119

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

Power Generation

34. Mailing Address:	**City Public Service of San Antonio**							
	P.O. Box 1771							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78296**	**ZIP + 4**	

35. E-Mail Address:	**GRTieken@CPSEnergy.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(210) 353-2158		( ) -

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:
	WQ0001516000 (TX0093690)		19-2161	

SECTION IV: Preparer Information

40. Name:	Summer Johnson	41. Title:	Environmental Analyst

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 353-2770		( ) -	sjohnson@cpsenergy.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 Public Service of San Antonio	Job Title:	Director, Environmental
Name *(in Print)*:	Gregg Tieken	Phone:	(210) 353- 2158
Signature:	Gregg Tieken	Date:	March 19, 2025

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN100217835
Name: V H BRAUNIG A VON ROSENBERG PLANT View Prior Names ...
Primary Business: FLEET REFUELING
Street Address: 15290 STREICH RD, ELMENDORF TX 78112 9865
County: BEXAR
Nearest City: ELMENDORF
State: TX
Near ZIP Code: 78112
Physical Location: 15290 Streich Road

Affiliated Customers - Current

Your Search Returned **2** Current Affiliation Records (View Affiliation History ...)

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-2 of 2 Records

CN Number	Customer Name	Customer Role(s)	Details
CN600129019	CITY PUBLIC SERVICE BOARD	OWNER OPERATOR	
CN603174244	CITY PUBLIC SERVICE OF SAN ANTONIO	OWNER OPERATOR	

Industry Type Codes

Code	Classification	Name
221112	NAICS	Fossil Fuel Electric Power Generation
221119	NAICS	Other Electric Power Generation
4911	SIC	Electric Services

Permits, Registrations, or Other Authorizations

There are a total of **27** programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-27 of 27 Records

Program	ID Type	ID Number	ID Status
AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	BG0186I	ACTIVE
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	BG0186I	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4802900005	ACTIVE
AIR NEW SOURCE PERMITS	EPA PERMIT	PSDTX1095	ACTIVE

AIR NEW SOURCE PERMITS	EPA PERMIT	PSDTX907	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	18704	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	38183	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	45641	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	81903	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	164074	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	173203	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	175075	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	92580	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	92592	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	BG0186I	ACTIVE
AIR OPERATING PERMITS	PERMIT	7	ACTIVE
IHW CORRECTIVE ACTION	SOLID WASTE REGISTRATION # (SWR)	31855	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	EPA ID	TXD000726257	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	31855	ACTIVE
LEAKING PETROLEUM STORAGE TANKS REMEDIATION	ID NUMBER	100448	INACTIVE
LEAKING PETROLEUM STORAGE TANKS REMEDIATION	ID NUMBER	100860	INACTIVE
LEAKING PETROLEUM STORAGE TANKS REMEDIATION	ID NUMBER	93813	INACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	39159	ACTIVE
POLLUTION PREVENTION PLANNING	ID NUMBER	P06615	ACTIVE
WASTEWATER	EPA ID	TX0063690	ACTIVE
WASTEWATER	PERMIT	TXG670140	CANCELLED
WASTEWATER	PERMIT	WQ0001515000	ACTIVE

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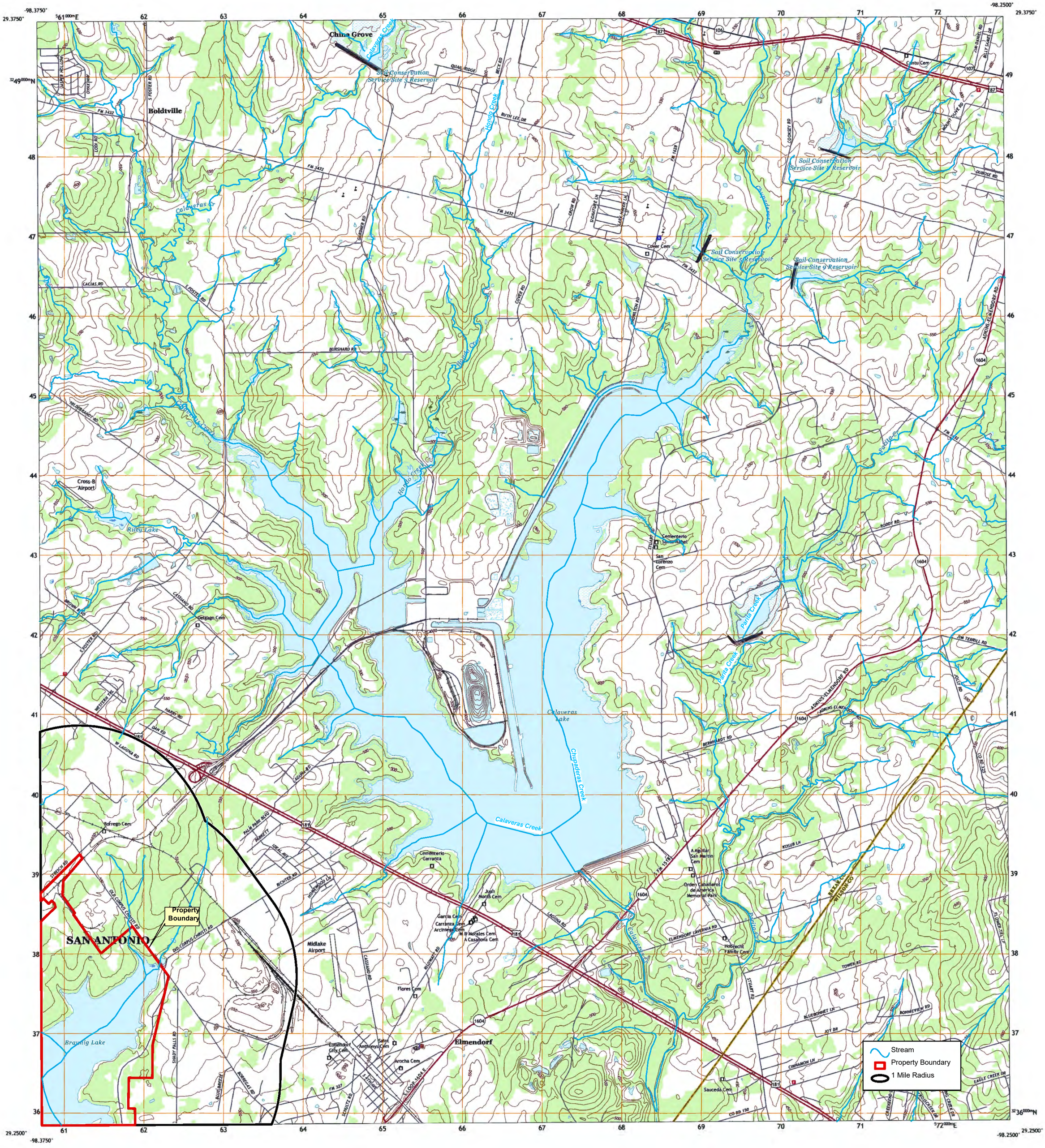
ATTACHMENT – TOPOGRAPHIC MAP

USGS science for a changing world

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

The National Map US Topo

ELMENDORF 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

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,	September 2016 -	November 2016
Roads	U.S. Census Bureau,	2015 -	2019
Names	GNIS,	1979 -	2022
Hydrography	National Hydrography Dataset,	2000 -	2021
Contours	National Elevation Dataset,		2019
Boundaries	Multiple sources; see metadata file	2019 -	2021

Wetlands....FWS National Wetlands Inventory Not Available

MN
GN
4°2'
72 MILS
0°20'
6 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
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.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Antonio East
2 Martinez
3 Saint Hedwig
4 Southton
5 La Vernia SW
6 Losoya
7 Saspamco
8 Floresville
ADJOINING QUADRANGLES

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

ELMENDORF, TX
2022

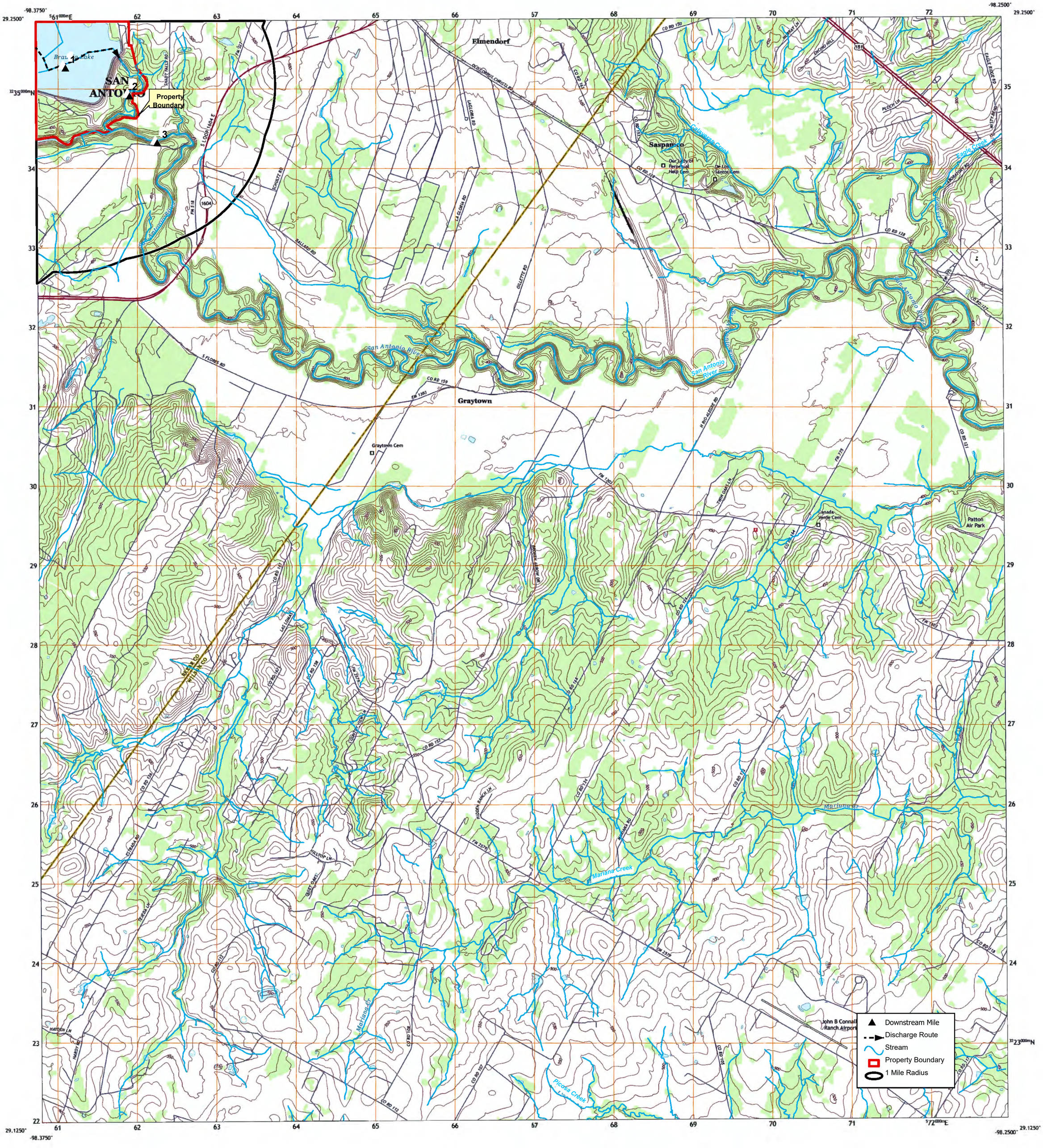
NSN 7643016396052
NOA REF NO.USGSX24K14181

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

The National Map US Topo

SASPAMCO QUADRANGLE
TEXAS
7.5-MINUTE SERIES

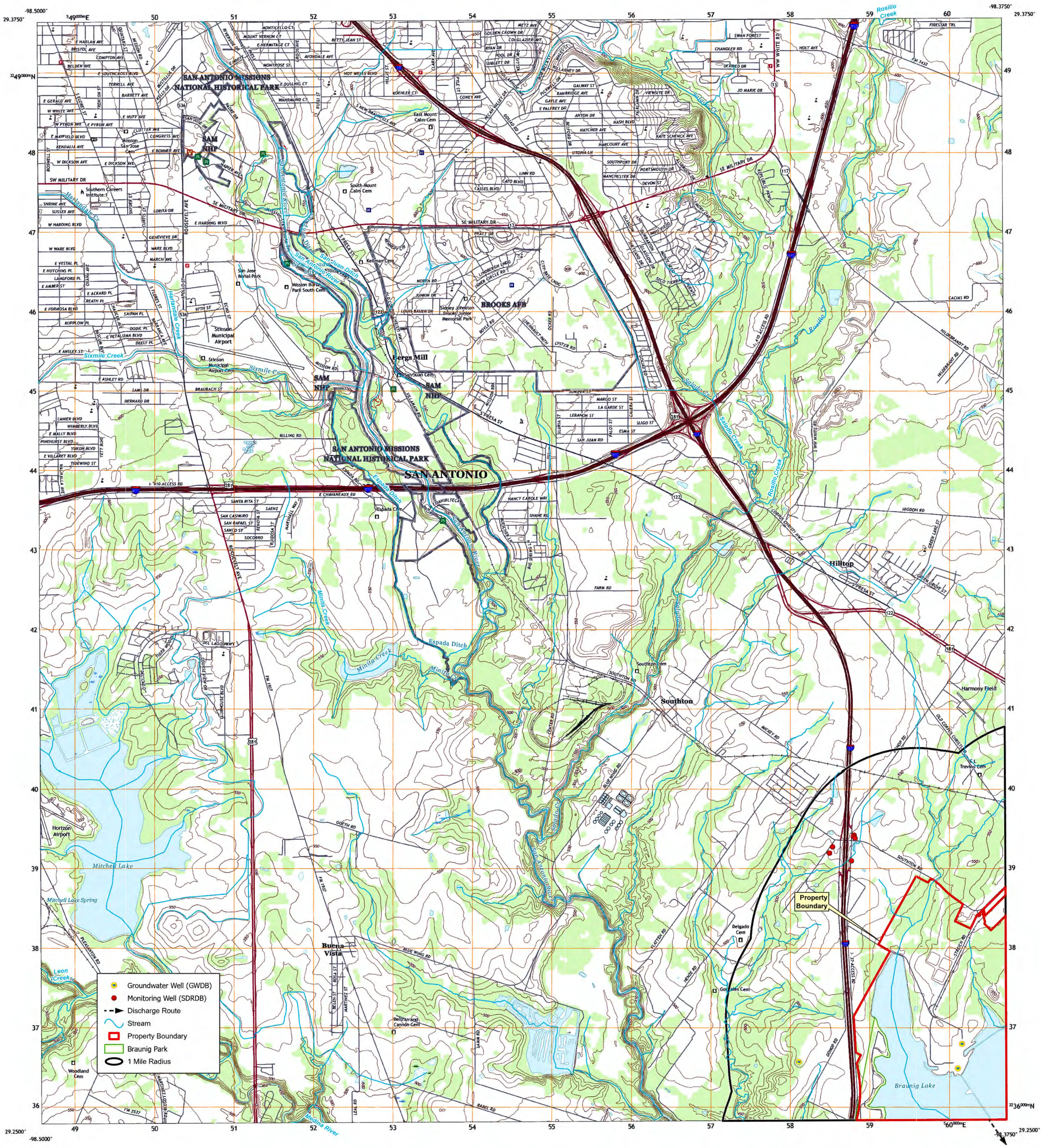


USGS science for a changing world

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

The National Map US Topo

SOUTHTON QUADRANGLE
TEXAS - BEXAR COUNTY
7.5-MINUTE SERIES

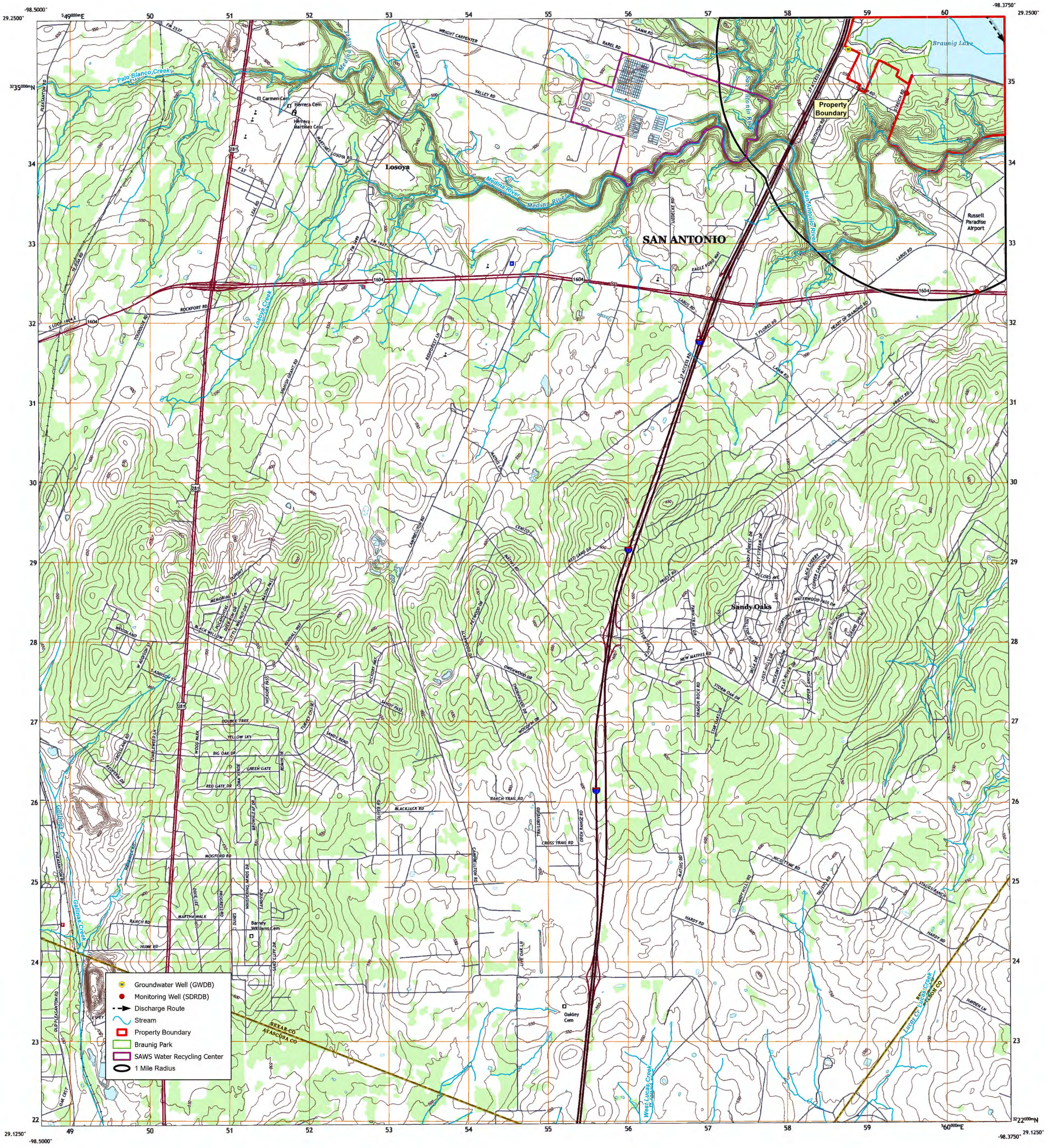

-98.5000°
29.3750°
-98.3750°
29.2500°
549000mE
560000mE
3249000mN
3236000mN
SAN ANTONIO MISSIONS NATIONAL HISTORICAL PARK
SAM NHP
BROOKS AFB
Berg's Mill
SAN ANTONIO
Hilltop
Southton
Buena Vista
East Mount Calm Cem
South Mount Calm Cem
Kellman Cem
San Jose Burial Park
Mission Burial Park South Cem
Stinson Municipal Airport
Stinson Municipal Airport Cem
Sidney Johnston Brooks Junior Memorial Park
San Juan Cem
Espada Cem
Southton Cem
Delgado Cem
Gonzales Cem
Trevino Cem
Beltran and Cannon Cem
Woodland Cem
Mission San Jose Cem
Southern Careers Institute
Horizon Airport
Harmony Field
Property Boundary
Groundwater Well (GWDB)
Monitoring Well (SDRDB)
Discharge Route
Stream
Property Boundary
Braunig Park
1 Mile Radius
Salado Cr
Rosillo Creek
Sixmile Creek
Harlandale Cr
Republic Park
Braunig Lake
Mitchell Lake
Mitchell Lake Spring
Leon Creek
Medina River
Espada Ditch
Minita Creek
San Antonio River
San Antonio River Diversion
San Juan Ditch
Salado Creek
Rosillo Creek
Minita Creek
SE MILITARY DR
SW MILITARY DR
I- 410 ACCESS RD
E CHAVANEAUX RD
ROOSEVELT AVE
S PRESA ST
CORPUS CHRISTI HWY
FM 1937
FM 2537
BEASMONT RD
GOETH RD
BLUE WING RD
RABEL RD
SOUTHTON RD
HIGDON RD
MICKEY RD
CACIAS RD
HILDEBRANDT RD
I- 37 ACCESS RD
EDDUP RD
STRETCH RD
FLATTEN RD
HENKE RD
LAMM RD
BELEN ST
MARTINEZ ST
BIG SPRING LN
FARM RD
SHANE RL
NANCY CAROLE WAY
SAN JUAN RD
JUNIPER ST
MARGO ST
LA GARDE ST
LEBANON ST
SLIGO ST
ESMA ST
SUBLETT DR
GOLDEN CROWN DR
COLGLAZIER AVE
METZ AVE
SWAN FOREST
CHANDLER RD
DEXTER DR
HOLT AVE
JO MARIE DR
FIRESTAR TRL
FM 3432
S WW WHITE RD
GALWAY ST
BANBRIDGE AVE
VIEWSITE DR
GAYLE AVE
E PALFREY DR
ANTON DR
HATCHER AVE
NASH BLVD
KATE SCHENCK AVE
HARCOURT AVE
UTOPIA LN
SOUTHPORT DR
PORTSMOUTH DR
MANCHESTER DR
DEVON ST
LINN RD
CATO BLVD
LASSES BLVD
PRATT DR
KENNEDY CIR
NORTH RD
JUNKIN DR
LOUIS BAUER DR
BOYLE RD
OCKER RD
LYSTER RD
GOLIAD RD
LINDBERGH LNDG
INNER CIRCLE RD
CITY-BASE LNDG
GLASGOW
DRUMMOND
LOCHINVAR
SHETLAND DR
PARK VIEW DR
SECO TIERRA
FIERRITE
ALBERGOON DR
MONTE BELLO
PARK VILLA
MISSION RD
MISSION BRK
VILLAMAIN RD
CALERA ST
PALOS ST
SILURIA ST
SAN ANTONIO RIVER
SAN ANTONIO RIVER DIVERSION
SAN JUAN DITCH
ESPADA RD
ESPADA DITCH
MINITA CREEK
SALADO CREEK
ROSILLO CREEK
SIXMILE CREEK
HARLANDALE CR
REPUBLIC PKWY
CENTER RD
MISSION RD
SOUTHTON RD
OLD CORPUS CHRISTI RD
GREEN LAKE ST
CORTINA GROVE ST
LOMA VISTA
SAENZ
SANTA RITA ST
SAN CASIMIRO
SAN RAFAEL ST
SANCO ST
SOCORRO
RENOVA ST
RUIDOSA ST
HARSHALL WAY
DEL LAGO PKWY
DEL LAGO
TIGER WOODS
BLUEHOUSE BLVD
GREENSPRING DR
HARTINEZ LOSOYA RD
MISSION VALLEY
MISSION TRAIL
MISSION DR
SAN JOSE DR
PAJARITO AVE
ROOSEVELT AVE
S PRESA ST
S FLORES ST
TRENTON ST
BOSWELL ST
KELLY DR
BASTILLON DR
QUINTANA ST
MISSION RD
RIVERSIDE DR
S WHITE
MONTICELLO CT
MOUNT VERNON CT
E HERMITAGE CT
MONTROSE ST
AVONDALE AVE
GROSSVINE
BETTY JEAN ST
E DULLNIG CT
WAHRMUND CT
RUSSI ST
HOT WELLS BLVD
KOEHLER CT
CONEY AVE
PALS ST
CLARK AVE
HILLIE ST
S NEW BRAUNFELS AVE
PECAN VALLEY DR
GOLIAD RD
E HARLAN AVE
BRISTOL AVE
COMPTON AVE
BELDEN AVE
E SOUTHCROSS BLVD
TERRELL AVE
BARRETT AVE
E GERALD AVE
W WHITE AVE
W PYRON AVE
E PYRON AVE
E MAYFIELD BLVD
KENDALIA AVE
W DICKSON AVE
E DICKSON AVE
E HUFF AVE
CLUTTER AVE
CONGRESS AVE
E BONNER AVE
RAPIER AVE
SHRINE AVE
SUSSEX AVE
W HARDING BLVD
W WARE BLVD
E VESTAL PL
E HUTCHINS PL
LANGFORD PL
E AMBER ST
E ACKARD PL
CREATH PL
E FORMOSA BLVD
KOPPLOW PL
E PETALUMA BLVD
DEELY PL
E ANSLEY ST
E ASHLEY RD
SAMS DR
HERNARD DR
LANIER BLVD
WIMBERLY BLVD
E MALLY BLVD
PINEHURST BLVD
YUKON BLVD
E VILLARET BLVD
TIDEWIND ST
YETT BLVD
WALTHALL AVE
SHYDER ST
CURTIS ST
LORITA DR
GENEVIEVE DR
WARE BLVD
MARCH AVE
OXANA AVE
POLO ST
97TH ST
ECHO ST
CHUPEK AVE
BARRANCA AVE
BACCUS WAY
BRAUBACH ST
SAINPAR PL
DODIC PL
SE MILITARY DR
E HARDING BLVD
SAN JOSE DR
PAJARITO AVE
RAPIER AVE
CLUTTER AVE
CONGRESS AVE
E BONNER AVE
SHRINE AVE
SUSSEX AVE
W HARDING BLVD
W WARE BLVD
GENEVIEVE DR
WARE BLVD
MARCH AVE
E VESTAL PL
E HUTCHINS PL
LANGFORD PL
E AMBER ST
E ACKARD PL
CREATH PL
E FORMOSA BLVD
KOPPLOW PL
E PETALUMA BLVD
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E ANSLEY ST
E ASHLEY RD
SAMS DR
HERNARD DR
LANIER BLVD
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COLGLAZIER AVE
RYAN DR
POOL DR
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DOLLARHIDE AVE
KELLY DR
DON BILLA ST
WALES ST
MILLARNEY DR
GALWAY ST
BANBRIDGE AVE
GAYLE AVE
E PALFREY DR
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NASH BLVD
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UTOPIA LN
SOUTHPORT DR
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DEVON ST
LINN RD
CATO BLVD
LASSES BLVD
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KENNEDY CIR
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BOYLE RD
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LYSTER RD
GOLIAD RD
LINDBERGH LNDG
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CITY-BASE LNDG
GLASGOW
DRUMMOND
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SHETLAND DR
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SECO TIERRA
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ALBERGOON DR
MONTE BELLO
PARK VILLA
MISSION RD
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VILLAMAIN RD
CALERA ST
PALOS ST
SILURIA ST
JUNIPER ST
MARGO ST
LA GARDE ST
LEBANON ST
SLIGO ST
ESMA ST
SAN JUAN RD
SWAN FOREST
CHANDLER RD
DEXTER DR
HOLT AVE
JO MARIE DR
FIRESTAR TRL
FM 3432
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MISSION TRAIL
MISSION DR
SAN JOSE DR
PAJARITO AVE
ROOSEVELT AVE
S PRESA ST

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

The National Map
US Topo

LOSOYA 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

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, September 2016 - November 2016
Roads	U.S. Census Bureau, 2015 - 2019
Names	GNIS, 1979 - 2022
Hydrography	National Hydrography Dataset, 2003 - 2021
Contours	National Elevation Dataset, 2021
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

MN
GN
4°6'
73 MILS
0°16'
6 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
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

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TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Terrell Wells
2 Southton
3 Elmendorf
4 Thelma
5 Saspamco
6 Poteet
7 Leming
8 Saspamco SE
ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

LOSOYA, TX
2022

NSN 7643016397114
NGA REF NO. USGSX24K26638

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF) AND ATTACHMENTS

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 Public Service of San Antonio

   Permit No. WQ00 01515000 EPA ID No. TX 0063690

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

   V.H. Braunig Power Station, 15290 Streich Road, Elmendorf, TX 78112

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: Summer Johnson

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

Title: Environmental Analyst

Mailing Address: P.O. Box 1771 Mail Drop: 100406

City, State, Zip Code: San Antonio, TX 78296

Phone No.: (210) 353-2770 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: sljohnson@cpsenergy.com

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

N/A

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

To Braunig Lake; thence to Arroyo Seco; thence to the Upper San Antonio River Segment No. 1911 of San Antonio 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).

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Land is used for power generation.

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:

See attachment immediately following this page

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

See attachment immediately following this page

Items 3 and 4 responses:

Prior to 1964, the property is believed to have been a greenfield site and has been used for electrical power generation since that time.

VHB Unit 1 Field Office designed and constructed by Brown & Root, Inc. in 1964

VHB Unit 1 Office Building designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Shop Building designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Warehouse designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Line Control Building designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Lube Oil Storage Building designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Turbo Generator Building designed and constructed by Brown & Root, Inc. in 1966

VHB Unit 1 Water Treatment Building designed and constructed by Brown & Root, Inc. in 1966

Turbine Generator Building designed and constructed by Gibbs & Hill, Inc. in 1968

AvR constructed by contractor through Black & Veatch in 2000

MBLE constructed by Worley Parsons in 2009

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

USGS science for a changing world

The National Map US Topo

ELMENDORF 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

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MN
GN
0°20'
6 MILS
4°2'
72 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NT
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

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ADJOINING QUADRANGLES

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ELMENDORF, TX
2022

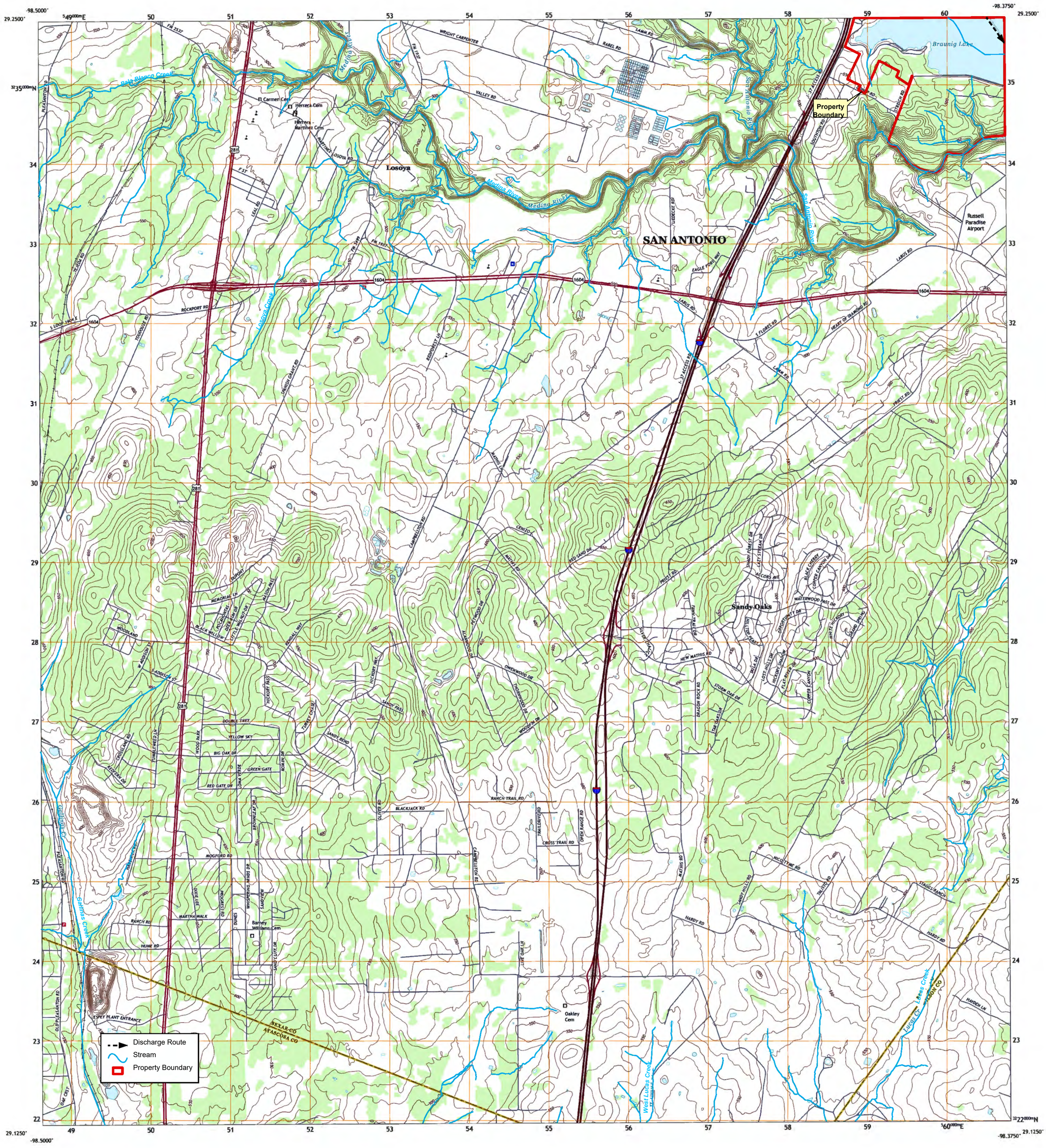
NSN 7643016396052
NGA REF NO. USGSX24K141181

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U.S. DEPARTMENT OF THE INTERIOR
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The National Map US Topo

LOSOYA QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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U.S. National Grid 100,000-m Square ID: NT
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
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Interstate Route
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State Route

LOSOYA, TX
2022

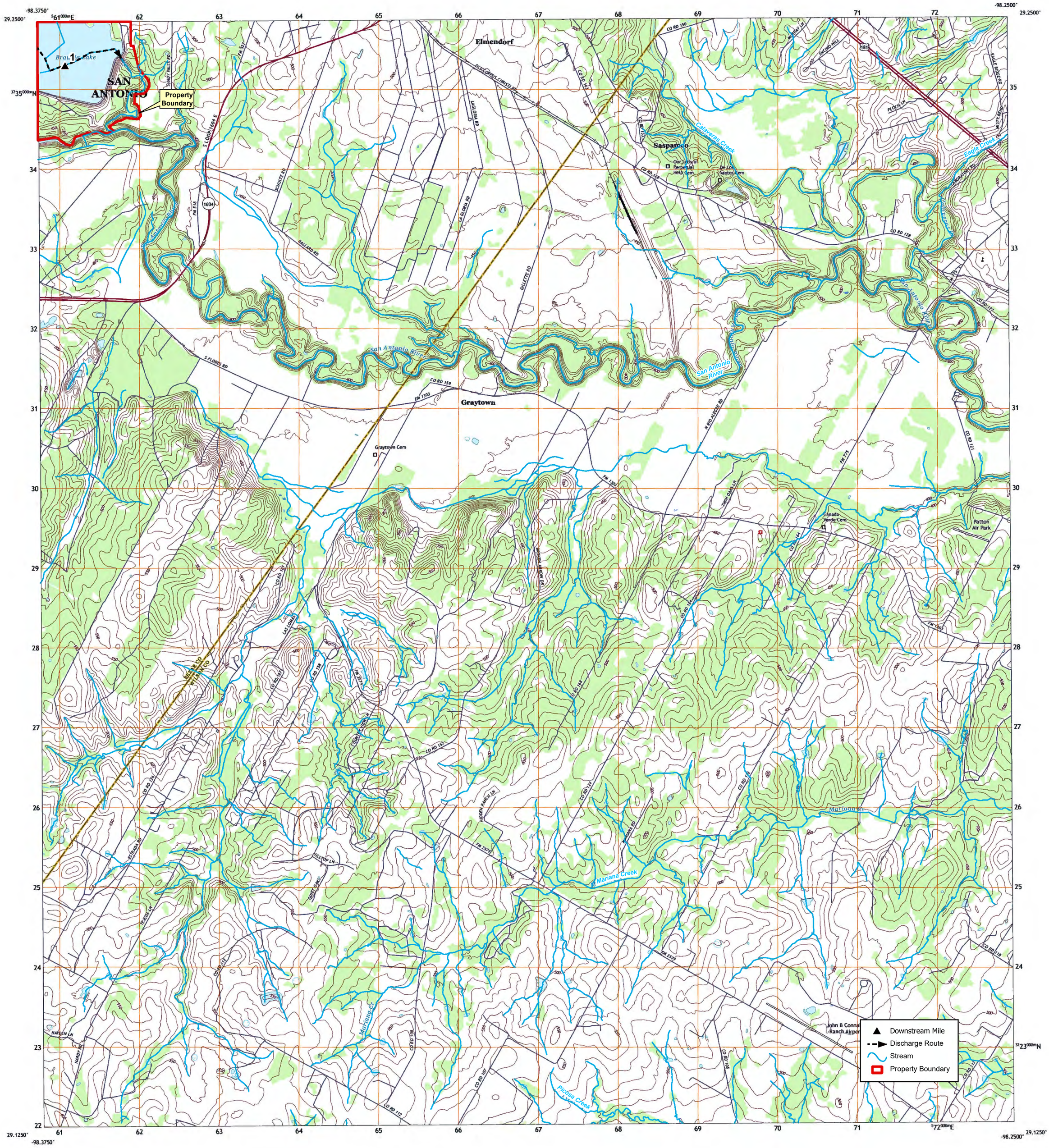
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NGA REF NO.USGSX24K26638

USGS science for a changing world

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SASPAMCO QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Southton
2 Elmendorf
3 La Vernia SW
4 Losoya
5 Floresville
6 Leming
7 Saspamco SE
8 Dewees
ADJOINING QUADRANGLES

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

SASPAMCO, TX
2022

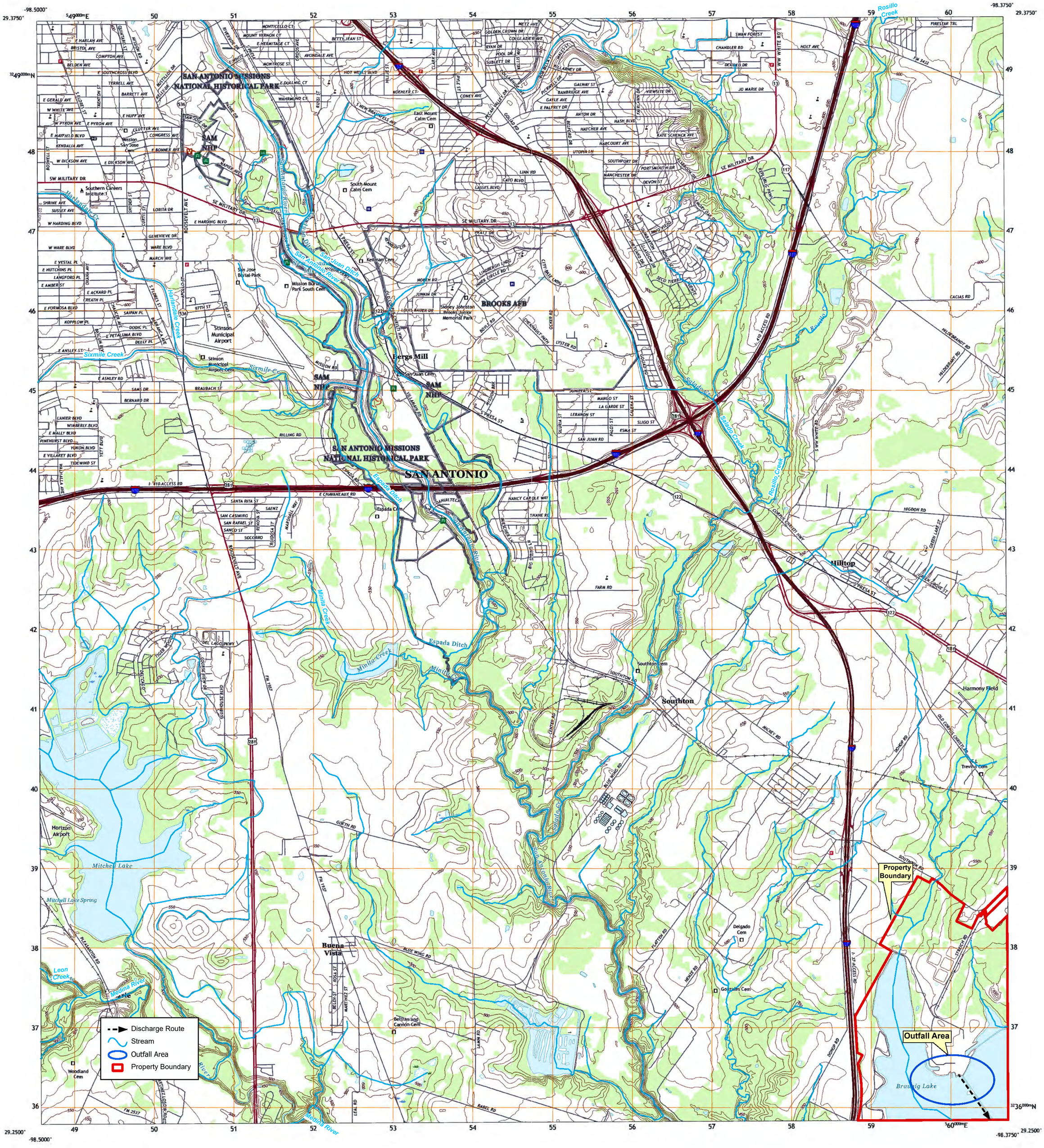
NSN 7643016398168
NGA REF NO.USGSX24K40010

USGS science for a changing world

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

The National Map US Topo

SOUTHTON QUADRANGLE
TEXAS - BEXAR COUNTY
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

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, September 2016 - November 2016
Roads	U.S. Census Bureau, 2015 - 2019
Names	GNIS, 1979 - 2022
Hydrography	National Hydrography Dataset, 2003 - 2021
Contours	National Elevation Dataset, 2021
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Net Available

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
(MN, GN, 4°8' 73 MILS, 0°17' 5 MILS)

U.S. National Grid
100,000-m Square ID
NT
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.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 San Antonio West
2 San Antonio East
3 Martinez
4 Terrell Wells
5 Elmendorf
6 Thelma
7 Losoya
8 Saspamco

ROAD CLASSIFICATION

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

SOUTHTON, TX
2022

NSN. 7643016398400
NGA REF NO.USGSX24K42348

PAYMENT SUBMITTAL FORM

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ0001515000

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: V H Braunig Power Station

   Physical Address of Project or Site: 15290 Streich Road, Elmendorf, TX 78112

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

Staple Check or Money Order in This Space

PLAIN LANGUAGE SUMMARY

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here 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.

City Public Service of San Antonio (CN 603174244) operates V.H. Braunig Power Station (RN 100217835), an electrical power generating facility. The facility is located at 15290 Streich Road, in Elmendorf, Bexar County, Texas 78112. This application is for renewal of the existing TPDES industrial wastewater discharge permit (WQ 0001515000) with major amendment.

Once-through and auxiliary cooling water, water treatment wastes (demineralizer, reverse osmosis, water softener, neutralization basin, stormwater retention basin, weir tank), floor and yard drains, and boiler blowdown are treated by demineralizers, reverse osmosis, pH adjustment, stormwater retention, an oily water separator and a weir tank.

Proposed changes to the permit include:

1. Adding construction stormwater to specific outfalls
2. Reducing stormwater monitoring frequency
3. Changing sampling requirements for outfalls that are representative of each other
4. Adding extended chlorination or alternate techniques if necessary for zebra mussel mitigation

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /**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.

City Public Service of San Antonio (CN 603174244) opera la V.H. Braunig Power Station (RN 100217835), una planta generadora de energía eléctrica. La planta está ubicada en 15290 Streich Road, en Elmendorf, Condado the Bexar, Texas 78112. Esta solicitud es para la renovación del permiso existente de descarga de aguas residuales industriales TPDES (WQ 0001515000) con una enmienda mayor.

El agua de enfriamiento de un solo uso y auxiliar, los residuos de tratamiento de agua (desmineralizador, osmosis inversa, estanque de neutralización, estanque de retención de aguas pluviales, tanque de vertedero), los desagües de piso y patio, y el drenaje de la caldera son tratados por desmineralizadores, ósmosis inversa, ajuste de pH, retención de aguas pluviales, un separador de aguas aceitosas y un tanque de vertedero.

Las enmiendas propuestas al permiso incluyen:

1. Añadir aguas pluviales de construcción a desagües específicos
2. Reducir la frecuencia de monitoreo de aguas pluviales
3. Cambiar los requisitos de muestreo para los desagües que son representativos entre sí
4. Agregar cloración extendida o técnicas alternas si es necesario para la mitigación de mejillones cebra

PUBLIC INVOLVEMENT PLAN FORM

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☐ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

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

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

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

All three of the above boxes are not checked.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☐ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

TECHNICAL REPORT 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

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

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

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

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

The V. H. Braunig Power Station generates electricity for distribution to San Antonio and surrounding area. The facility is comprised of three steam electric units, one combined cycle gas combustion turbine unit, and four simple cycle gas turbine unit for a combined generating capacity of 3,045 MW. This facility utilizes a once-through cooling system, supplied by Braunig Lake water. The applicable SIC code for this facility is 4911.

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

Once-through cooling water, previously monitored effluents (low volume waste sources, chiller coil condensate, vault water, condensate water, water box drainage, wash water, water treatment wastes, cooling water, quench water, stormwater associated with construction activity and material/product storage area, and stormwater runoff), and stormwater runoff.

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

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

Materials List

Raw Materials	Intermediate Products	Final Products
natural gas	none	steam electric generation
fuel oil	none	steam electric generation

Attachment: N/A

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

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

Attachment: Facility Map

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

☐ Yes ☒ No

If **yes**, provide background discussion: Click to enter text.

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

☐ Yes ☒ No

List source(s) used to determine 100-year frequency flood plain: GIS and San Antonio River Authority website

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Small portions of the site are in the 100-year frequency flood plain. CPS Energy owns and operates Braunig Lake and Dam. The lake level is controlled at 506.5 ft. MSL.

Attachment: N/A

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

☐ Yes ☒ No ☐ N/A (not new permit or major amendment)

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

☐ Yes ☐ No

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

If **no**, provide an approximate date of application submittal to the USACE: Click to enter text.

Item 2. Treatment System (Instructions, Page 40)

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

Outfall 101 - demineralizer, reverse osmosis; pH adjustment; Outfall 701 – stormwater retention basin; Outfall 801 – oily water separator and weir tank

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

Attachment: Water Balance

Item 3. Impoundments (Instructions, Page 40)

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

Impoundment Information

Parameter	**Pond #**	**Pond #**	**Pond #**	**Pond #**
Use Designation: (T) (D) (C) or (E)	C&E	C&E		
Associated Outfall Number	003	701		
Liner Type (C) (I) (S) or (A)	N/A	C		
Alt. Liner Attachment Reference	N/A	N/A		
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	N/A	N/A		
Length (ft)	150	90		
Width (ft)	300	140		
Max Depth From Water Surface (ft), Not Including Freeboard	N/A	N/A		
Freeboard (ft)	N/A	N/A		
Surface Area (acres)	1.0	N/A		
Storage Capacity (gallons)	1-2 million	N/A		

Parameter	Pond #	Pond #	Pond #	Pond #
40 CFR Part 257, Subpart D, Y/N	N	N		
Date of Construction				

Attachment: N/A

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

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

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29.256465	-98.385495
001	29.255408	-98.382536
001	29.255412	-98.382103
101	29.257522	-98.380617
201	29.255964	-98.383942
401	29.255969	-98.382728
501	29.255356	-98.381939
601	29.255336	-98.381920
701	29.258779	-98.379628
801	29.255133	-98.381892
901	29.257847	-98.380523
003	29.262731	-98.387073
006	29.258411	-98.385234
007	29.257667	-98.385084
008	29.256700	-98.385084
009	29.264753	-98.386117
010	29.268588	-98.387883
011	29.255474	-98.381400
013	29.257106	-98.380148
015	29.256292	-98.380334
016	29.255476	-98.381211
017	29.255834	-98.380481
018	29.256045	-98.380361
019	29.255375	-98.382634

Outfall Location Description

Outfall No.	Location Description
001	3 locations: Braunig 1/Lee East 5-8 discharge, Braunig 2 discharge, AvR/Braunig 3 discharge
101	At Outfall 101, where low volume waste sources are discharged from the neutralization basin, at the neutralization basin discharge pipe sample port, located north of the neutralization basin and east of the administrative offices and reverse osmosis reject water at a second pipe sample port prior to mixing with any other waters.
201	At Outfall 201, where low volume waste sources are discharged into the AVR Circulating Water Box, discharging prior to commingling with other waters.
401	VHB1 and VHB2 discharge canals; 401A discharges to VHB1 canal and 401B discharges to VHB2 canal (Outfall 001)
501	At Outfall 501, at the drainage pipe, on the northwest bank of discharge canal #1 before discharging via Outfall 001 into Braunig Lake.
601	At Outfall 601, at the drainage ditch, on the northeast bank of discharge canal #1 before discharging via Outfall 001 into Braunig Lake.
701	At Outfall 701, after the concrete drainage structure, north of the intake canal and northeast side of the plant before discharge via the intake canal of Braunig Lake.
801	At Outfall 801, originates at Lee East and discharges at VHB1 discharge canal prior to mixing with any other waters.
901	At Outfall 901, where stormwater runoff is discharged from the concrete drainage area before discharging into Braunig Lake inlet canal.
003	At Outfall 003, where stormwater runoff is discharged from the final catch basin, northwest of the plant location, prior to discharge into Braunig lake.
006	At Outfall 006, at the northwest corner of facility area, west of the switchyard before discharge into Braunig Lake.
007	At Outfall 007, west side of switchyard prior to discharge into Braunig Lake.
008	At Outfall 008, southwest of the road by the natural gas house, before discharge into Braunig Lake.
009	At Outfall 009, southwest of the transmission laydown yard, prior to discharge to vegetated area, and before stormwater is discharged into Braunig Lake.
010	At Outfall 010, northwest of the transmission laydown yard, prior to discharge to vegetated area, and into Braunig Lake.
011	At Outfall 011, southeast of the welding and GMS building, prior to discharge into Braunig Lake.
013	At Outfall 013, at the drainage pipe, south of inlet/screenwash trench, before discharge into Braunig lake.
015	At Outfall O15, after the concrete drainage structure discharge pipe, east of the demineralizer building, before discharge into Braunig Lake.

Outfall No.	Location Description
016	At Outfall 016, at designated sample collection point, south of building 2202, outside of the fence prior to discharge into Braunig Lake.
017	At Outfall 017, at the discharge pipe, southeast of the water treatment building before discharging into Braunig Lake.
018	At Outfall 018, at the discharge pipe, east of the water treatment building before discharging into Braunig Lake.
019	At Outfall 019, at the discharge pipe, northeast of 401B oily water separator, before discharging into VBH2 discharge canal.

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

Outfall No.	Description of sampling point
001	3 locations: at Braunig 1/Lee East 5-8 discharge basin, Braunig 2 discharge basin, AvR/Braunig 3 discharge basin
101	At Outfall 101, where low volume waste sources and, washwater, and stormwater runoff are discharged from the neutralization basin, at the neutralization basin discharge pipe sample port, located north of the neutralization basin and east of the administrative offices and reverse osmosis reject water at a second pipe sample port prior to mixing with any other waters.
401	At Outfall 401, where low volume waste sources of wastewater and stormwater are discharged and sampled utilizing stationary submerged pump and piping, prior to mixing with any other waters. Sample points are at the sample trough in the plant. VHB1 blowdown discharges to VHB1 discharge canal. VHB2 and 3 discharge into VHB2 discharge canal.
003	At Outfall 003, where stormwater runoff is discharged from the final catch basin discharge pipe, before discharge into Braunig lake.
006	At Outfall 006 after the concrete drainage structure, at the northwest corner of facility area, prior to discharge into Braunig Lake.
007	At Outfall 007, after the concrete drainage structure weir, on the southwest side of the switchyard.
008	At Outfall 008, after the concrete drainage structure weir, southwest of the road by the natural gas house, before discharge into Braunig Lake.
009	At Outfall 009, at the designated sample collection point, southwest of the transmission laydown yard, prior to discharge to vegetated area, and before stormwater is discharged into Braunig Lake.
010	At Outfall 010, at the designated sample collection point, northwest of the transmission laydown yard, prior to discharge to vegetated area, and into Braunig Lake.
011	At Outfall 011, at the designated sample collection point, southeast of the welding and GMS building, prior to discharge into Braunig Lake.
013	At Outfall 013, at sample vault, south of inlet, prior to commingling with screenwash water, before discharge into Braunig lake.

Outfall No.	Description of sampling point
015, 017, 018	015 is the representative sampling point for 015,017, & 018
019	At Outfall 019, at concrete collection box west of building 2212, prior to discharge into Braunig 2 discharge canal.

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	1320	1340	1320	1340	Existing
101	Report	Report	Report	Report	Existing
201	Report	Report	Report	Report	Existing
401	Report	Report	Report	Report	Existing
501	Report	Report	Report	Report	Existing
601	Report	Report	Report	Report	Existing
701	Report	Report	Report	Report	Existing
801	Report	Report	Report	Report	Existing
901	Report	Report	Report	Report	Existing
003	Report	Report	Report	Report	Existing
006	Report	Report	Report	Report	Existing
007	Report	Report	Report	Report	Existing
008	Report	Report	Report	Report	Existing
009	Report	Report	Report	Report	Existing
010	Report	Report	Report	Report	Existing
011	Report	Report	Report	Report	Existing
013	Report	Report	Report	Report	Existing
015	Report	Report	Report	Report	Existing
016	Report	Report	Report	Report	Existing
017	Report	Report	Report	Report	Existing
018	Report	Report	Report	Report	Existing
019	Report	Report	Report	Report	Existing

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Circ. Water Pump Records
101	Y	N	Ft = Gal. from Water Lab + 25% R.O. reject water

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
201	Y	N	GPM in-ground pumps
401	N	Y	Flow estimation using Manning's Equation and Field Data
501	N	Y	California Pipe
601	N	Y	California Pipe
701	N	Y	Flow estimation using Manning's Equation and Field Data
801	Y	N	Circ. Water Pump Records
901	N	Y	Flow estimation using Manning's Equation and Field Data
003	N	Y	California Pipe
006	N	Y	Flow estimation using Manning's Equation and Field Data
007	N	Y	Flow Estimation using Manning's Equation and Field Data
008	N	Y	Flow Estimation using Manning's Equation and Field Data
009	N	Y	Flow Estimation using Manning's Equation and Field Data
010	N	Y	Flow Estimation using Manning's Equation and Field Data
011	N	Y	Flow Estimation using Manning's Equation and Field Data
013	N	Y	Flow Estimation using Manning's Equation and Field Data
015	N	Y	Flow Estimation using Manning's Equation & Field Data
016	N	N	Flow Estimation using Manning's Equation and Field Data

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
017	N	Y	Flow Estimation using Manning's Equation and Field Data
018	N	Y	Flow Estimation using Manning's Equation and Field Data
019	N	Y	Flow Estimation Using Manning's Equation and Field Data

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	N	N	Y	24	31	12
101	Y	N	N	N/A	N/A	N/A
201	Y	N	N	N/A	N/A	N/A
401	Y	N	N	Variable	Variable	Variable
501	Y	N	N	Variable	Variable	Variable
601	Y	N	N	Variable	Variable	Variable
701	Y	N	N	Variable	Variable	Variable
801	Y	N	N	Variable	Variable	Variable
901	Y	N	N	Variable	Variable	Variable
003	Y	N	N	Variable	Variable	Variable
006	Y	N	N	Variable	Variable	Variable
007	Y	N	N	Variable	Variable	Variable
008	Y	N	N	Variable	Variable	Variable
009	Y	N	N	Variable	Variable	Variable
010	Y	N	N	Variable	Variable	Variable
011	Y	N	N	Variable	Variable	Variable
013	Y	N	N	Variable	Variable	Variable
015	Y	N	N	Variable	Variable	Variable
016	Y	N	N	Variable	Variable	Variable
017	Y	N	N	Variable	Variable	Variable
018	Y	N	N	Variable	Variable	Variable
019	Y	N	N	Variable	Variable	Variable

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Once-through cooling water	1279	95%
Previously monitored effluents (PMEs)	61	5%
Low volume waste sources	intermittent & variable	variable
Previously monitored effluents (PMEs) include: low volume waste sources, chiller coil condensate, vault water, condensate water, water box drainage, wash water, water treatment wastes, cooling water, quench water, stormwater associated with construction activity and material/product storage area, and stormwater runoff		
Applicable Low Volume Wastes: Water treatment wastes		

Outfall No. 101

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Low volume waste sources	intermittent & variable	variable
Water treatment wastes	intermittent & variable	variable
Vault water	intermittent & variable	variable
Applicable Low Volume Wastes: Wastewaters from ion exchange water treatment system, laboratory and sampling streams		

Outfall No. 201

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Low volume waste sources	intermittent & variable	variable
Non-contact cooling water from the evaporative coolers	intermittent & variable	variable
Water condensate (heat exchangers)	intermittent & variable	variable
Water box drainage	intermittent & variable	variable
Vault water	intermittent & variable	variable
Cooling water	intermittent & variable	variable
Quench water	intermittent & variable	variable
Washwater	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Applicable Low Volume Wastes: Boiler blowdown		

Outfall No. 401

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Low volume waste sources	intermittent & variable	variable

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Applicable Low Volume Wastes: Floor drains		

Outfall No. 501

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Washwater	intermittent & variable	variable
Condensate tank drainage	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Vault water	intermittent & variable	variable

Outfall No. 601

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Condensate tank drainage	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable

Outfall No. 701

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable
Water treatment wastes	intermittent & variable	variable
Non-contact cooling water from the evaporative coolers	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable

Outfall No. 801

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Low volume waste sources	intermittent & variable	variable
Storm water runoff	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable
Cooling water	intermittent & variable	variable
Condensate water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Applicable Low Volume Wastes: Oily Water Separator/Frac Tank, floor drains		

Outfall No. 901

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff (from a concrete drainage area)	intermittent & variable	variable
Stormwater associated with construction activity and material storage area	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable

Outfall No. 003

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Stormwater from a fuel loading and off-loading area	intermittent & variable	variable
Vault water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable

Outfall No. 006, 007, 008, 011

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater from a fuel loading and off-loading area	intermittent & variable	variable
Condensate tank drainage	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable

Outfall No. 009, 010

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Vault water	intermittent & variable	variable

Outfall No. 013

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Stormwater from a fuel loading and off-loading area	intermittent & variable	variable
Condensate tank drainage	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Potential wastewater holding tanks overflow	intermittent & variable	variable

Outfall No. 016

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff from material/product storage areas	intermittent & variable	variable
Vault water	intermittent & variable	variable
Washwater	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable

Outfall No. 015, 017, 018

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff	intermittent & variable	variable
Condensate tank water drainage	intermittent & variable	variable
Washwater	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Vault water	intermittent & variable	variable
Secondary containment and area stormwater runoff	intermittent & variable	variable
Neutralization pit water	intermittent & variable	variable
Emergency discharge of water treatment wastes	intermittent & variable	variable
Service water tank overflow (near Outfall 017)	intermittent & variable	variable

Outfall No. 019

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater runoff from the area south of the Braunig units	intermittent & variable	variable
Stormwater associated with construction activity and a material/product storage area	intermittent & variable	variable
Washwater	intermittent & variable	variable
Vault water	intermittent & variable	variable

Attachment: N/A

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

a. Indicate if the facility currently or proposes to:

☐ Yes ☒ No Use cooling towers that discharge blowdown or other wastestreams

☒ Yes ☐ No Use boilers that discharge blowdown or other wastestreams

☒ Yes ☐ No Discharge once-through cooling water

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

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

- Manufacturers Product Identification Number

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

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

Attachment: Chemical Additives

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	N/A	N/A	N/A
Boilers	5	18,580	55,740

Item 6. Stormwater Management (Instructions, Page 44)

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

☒ Yes ☐ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: equipment washdown areas, maintenance areas, equipment and material storage areas, truck unloading area

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

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

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☒ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☐ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Steven M Clouse Water Recycling Center	WQ0010137033

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

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Click to enter text.

Item 9. Toxicity Testing (Instructions, Page 45)

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

☒ Yes ☐ No

If **yes**, identify the tests and describe their purposes: Chronic static renewal survival and reproduction test using the water flea (Ceriodaphnia dubia) (Method 1002.0); Chronic static renewal 7-day larval survival and growth test using the fathead minnow (Pimephales promelas) (Method 1000.0)

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

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

☒ Yes ☐ No

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

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

☐ Yes ☒ No

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

c. Cooling Water Supplier

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

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

CWIS ID	001			
Owner	City Public Service of San Antonio ("CPS Energy")			
Operator	City Public Service of San Antonio (CPS Energy)			

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

d. 316(b) General Criteria

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

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

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

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

☐ Yes ☒ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

   ☐ Yes ☒ No

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

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

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

   ☐ Track I – AIF greater than 10 MGD

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

   ☐ Track II

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

   Attachment: Click to enter text.

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

   ☒ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

   ☐ Track I – Fixed facility

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

   ☐ Track I – Not a fixed facility

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

   ☐ Track II – Fixed facility

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

   Attachment: Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

   ☒ Yes ☐ No

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

Please refer to attachment - Description of Permit Changes

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

☒ Yes ☐ No

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

Please refer to attachment - Description of Permit Changes

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

☒ Yes ☐ No

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

Please refer to attachment - Description of Permit Changes

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

- performing work for another company with a unit located in the same site; or
- performing pro bono work for a governmental agency or charitable organization.

- The laboratory is accredited under federal law.
- The data are needed for emergency response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

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

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

CERTIFICATION:

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

Printed Name: Gregg Tieken

Title: Director, Environmental

Signature:

Date: March 19, 2025

WORKSHEET 1.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

Item 1. Categorical Industries (Instructions, Page 53)

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

☒ Yes ☐ No

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

40 CFR Effluent Guideline

Industry	40 CFR Part
Steam Electric Power Generation	423

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

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

a. Production Data

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

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
N/A	N/A	N/A	N/A

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

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

Percentage of Total Production

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

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

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

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

Process wastewater: boiler blowdown, floor and yard drains, once-through cooling, demineralizer regenerant, water reverse osmosis retentate,Wet Surface Air Cooler (SAC), AVR water box drains

Washwater: fire water used to washdown circulating water inlet, VHB1-3 boiler ground floor areas, and AVR boiler ground floor areas

Non-process wastewater: stormwater, secondary containment and vaults

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

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

Wastewater Generating Processes Subject to Effluent Guidelines

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced
Low Volume Waste	423	12	1966
Once-Through Cooling Water	423	12	1966

WORKSHEET 2.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

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

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

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 07/17/2024 – 08/07/2024

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** Priority Pollutant Contract Lab Information

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

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	**Sample 1 (mg/L)** 7/17/2024	**Sample 2 (mg/L)** 7/24/2024	**Sample 3 (mg/L)** 7/31/2024	**Sample 4 (mg/L)** 8/7/2024
BOD (5-day)	4.8	4.4	<2.00	5.21
CBOD (5-day)	3.36	6.05	3.86	3.32
Chemical oxygen demand	61.3	65.5	62.7	78.2
Total organic carbon	19.1	13.3	17.3	18.1
Dissolved oxygen	10	9.48	10.4	8.23
Ammonia nitrogen	<1.00	1.12	1.12	1.12
Total suspended solids	10.7	9.6	13	10.7
Nitrate nitrogen	<0.100	<0.100	<0.100	0.388
Total organic nitrogen	5.04	1.68	1.68	3.36
Total phosphorus	0.49	0.54	0.52	0.52
Oil and grease	<4.75	<4.75	<4.75	<4.75

Pollutant	Sample 1 (mg/L) 7/17/2024	Sample 2 (mg/L) 7/24/2024	Sample 3 (mg/L) 7/31/2024	Sample 4 (mg/L) 8/7/2024
Total residual chlorine	0.03	0.02	0.02	0.03
Total dissolved solids	1390	1590	1370	1200
Sulfate	152	148	153	142
Chloride	637	637	652	610
Fluoride	1.17	1.23	1.24	1.18
Total alkalinity (mg/L as CaCO3)	396	388	388	384
Temperature (°F)	67.5	69.3	68.2	61.5
pH (standard units)	9.15	9.27	9.25	9.43

Table 1 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (mg/L) 7/17/2024	Sample 2 (mg/L) 7/24/2024	Sample 3 (mg/L) 7/31/2024	Sample 4 (mg/L) 8/7/2024
BOD (5-day)	4.56	3.90	<2.00	4.87
CBOD (5-day)	2.61	4.98	3.88	2.99
Chemical oxygen demand	71.5	64.1	59.2	64.8
Total organic carbon	81.0	17.8	17.1	19.0
Dissolved oxygen	9.71	9.34	11.1	9.14
Ammonia nitrogen	<1.00	1.68	<1.00	4.48
Total suspended solids	8.51	9.78	13.0	<8.33
Nitrate nitrogen	<0.100	<0.100	<0.100	0.346
Total organic nitrogen	3.36	1.68	1.68	<1.00
Total phosphorus	0.48	0.52	0.53	0.55
Oil and grease	<4.75	<4.75	<4.75	<4.75
Total residual chlorine	0.02	0.02	0.01	<0.01
Total dissolved solids	1560	1510	1450	1320
Sulfate	148	150	147	144
Chloride	623	653	632	619
Fluoride	1.17	1.22	1.24	1.19
Total alkalinity (mg/L as CaCO3)	396	392	388	392
Temperature (°F)	66.6	69.3	68.2	61.5
pH (standard units)	9.12	9.14	9.23	9.40

Table 2 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	32	32	14	14	2.5
Antimony, total	<5	<5	<5	<5	5
Arsenic, total	5.66	5.48	5.67	5.59	0.5
Barium, total	53	52	51	51	3
Beryllium, total	<0.5	<0.5	<0.5	<0.5	0.5
Cadmium, total	<1	<1	<1	<1	1
Chromium, total	<3	<3	<3	<3	3
Chromium, hexavalent	<3	<3	<3	<3	3
Chromium, trivalent	<3	<3	<3	<3	N/A
Copper, total	2	<2	2	3	2
Cyanide, available	<2	<2	<2	<2	2/10
Lead, total	<0.5	<0.5	<0.5	<0.5	0.5
Mercury, total	0.000674	0.000852	0.000842	0.00109	0.005/0.0005
Nickel, total	6	5	5	5	2
Selenium, total	<5	<5	<5	<5	5
Silver, total	<0.5	<0.5	<0.5	<0.5	0.5
Thallium, total	<0.5	<0.5	<0.5	<0.5	0.5
Zinc, total	9	25	12	25	5.0

Table 2 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	44	39	13	16	2.5
Antimony, total	<5	<5	<5	<5	5
Arsenic, total	5.56	5.42	5.74	5.43	0.5
Barium, total	54	52	54	51	3
Beryllium, total	<0.5	<0.5	<0.5	<0.5	0.5
Cadmium, total	<1	<1	<1	<1	1
Chromium, total	<3	<3	<3	<3	3
Chromium, hexavalent	<3	<3	<3	<3	3
Chromium, trivalent	<3	<3	<3	<3	N/A
Copper, total	4	3	3	4	2
Cyanide, available	<2	<2	<2	<2	2/10

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Lead, total	0.6	<0.5	<0.5	<0.5	0.5
Mercury, total	0.000552	0.000532	0.00104	0.0006222	0.005/0.0005
Nickel, total	6	5	5	6	2
Selenium, total	<5	<5	<5	<5	5
Silver, total	<0.5	<0.5	<0.5	<0.5	0.5
Thallium, total	0.7	<0.5	<0.5	<0.5	0.5
Zinc, total	10	8	11	16	5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
o-Cresol [2-Methylphenol]	<10	<10	<10	<10	10
p-Cresol [4-Methylphenol]	<10	<10	<10	<10	10
1,2-Dibromoethane	<10	<10	<10	<10	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<10	<10	<10	<10	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<10	<10	<10	<10	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<10	<10	<10	<10	10
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5
1,2-Dichloroethane	<10	<10	<10	<10	10
1,1-Dichloroethene [1,1-Dichloroethylene]	<10	<10	<10	<10	10
Dichloromethane [Methylene chloride]	<20	<20	<20	<20	20
1,2-Dichloropropane	<10	<10	<10	<10	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<10	<10	<10	<10	10
2,4-Dimethylphenol	<10	<10	<10	<10	10
Di-n-Butyl phthalate	<10	<10	<10	<10	10
Ethylbenzene	<10	<10	<10	<10	10
Fluoride	1170	1230	1240	1180	500
Hexachlorobenzene	<5	<5	<5	<5	5
Hexachlorobutadiene	<10	<10	<10	<10	10
Hexachlorocyclopentadiene	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	20
Methyl ethyl ketone	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	10
N-Nitrosodiethylamine	<20	<20	<20	<20	20
N-Nitroso-di-n-butylamine	<20	<20	<20	<20	20
Nonylphenol	<333	<333	<333	<333	333
Pentachlorobenzene	<20	<20	<20	<20	20
Pentachlorophenol	<5	<5	<5	<5	5
Phenanthrene	<10	<10	<10	<10	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Polychlorinated biphenyls (PCBs) (**)	<0.2	<0.2	<0.2	<0.2	0.2
Pyridine	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	20
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	10
Tetrachloroethene [Tetrachloroethylene]	<10	<10	<10	<10	10
Toluene	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	10
1,1,2-Trichloroethane	<10	<10	<10	<10	10
Trichloroethene [Trichloroethylene]	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	50
TTHM (Total trihalomethanes)	<10	<10	<10	<10	10
Vinyl chloride	<10	<10	<10	<10	10

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

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

Table 3 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<50	<50	<50	<50	50
Anthracene	<10	<10	<10	<10	10
Benzene	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	50
Benzo(a)anthracene	<5	<5	<5	<5	5
Benzo(a)pyrene	<5	<5	<5	<5	5
Bis(2-chloroethyl)ether	<10	<10	<10	<10	10
Bis(2-ethylhexyl)phthalate	<10	<10	<10	<10	10
Bromodichloromethane [Dichlorobromomethane]	<10	<10	<10	<10	10
Bromoform	<10	<10	<10	<10	10
Carbon tetrachloride	<2	<2	<2	<2	2
Chlorobenzene	<10	<10	<10	<10	10
Chlorodibromomethane	<10	<10	<10	<10	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
[Dibromochloromethane]					
Chloroform	<10	<10	<10	<10	10
Chrysene	<5	<5	<5	<5	5
m-Cresol [3-Methylphenol]	<10	<10	<10	<10	10
o-Cresol [2-Methylphenol]	<10	<10	<10	<10	10
p-Cresol [4-Methylphenol]	<10	<10	<10	<10	10
1,2-Dibromoethane	<10	<10	<10	<10	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<10	<10	<10	<10	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<10	<10	<10	<10	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<10	<10	<10	<10	10
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5
1,2-Dichloroethane	<10	<10	<10	<10	10
1,1-Dichloroethene [1,1-Dichloroethylene]	<10	<10	<10	<10	10
Dichloromethane [Methylene chloride]	<20	<20	<20	<20	20
1,2-Dichloropropane	<10	<10	<10	<10	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<10	<10	<10	<10	10
2,4-Dimethylphenol	<10	<10	<10	<10	10
Di-n-Butyl phthalate	<10	<10	<10	<10	10
Ethylbenzene	<10	<10	<10	<10	10
Fluoride	1170	1220	1240	1190	500
Hexachlorobenzene	<5	<5	<5	<5	5
Hexachlorobutadiene	<10	<10	<10	<10	10
Hexachlorocyclopentadiene	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	20
Methyl ethyl ketone	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	10
N-Nitrosodiethylamine	<20	<20	<20	<20	20
N-Nitroso-di-n-butylamine	<20	<20	<20	<20	20
Nonylphenol	<333	<333	<333	<333	333

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Pentachlorobenzene	<20	<20	<20	<20	20
Pentachlorophenol	<5	<5	<5	<5	5
Phenanthrene	<10	<10	<10	<10	10
Polychlorinated biphenyls (PCBs) (**)	<0.2	<0.2	<0.2	<0.2	0.2
Pyridine	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	20
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	10
Tetrachloroethene [Tetrachloroethylene]	<10	<10	<10	<10	10
Toluene	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	10
1,1,2-Trichloroethane	<10	<10	<10	<10	10
Trichloroethene [Trichloroethylene]	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	50
TTHM (Total trihalomethanes)	<10	<10	<10	<10	10
Vinyl chloride	<10	<10	<10	<10	10

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. **Tributyltin**

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

☐ Yes ☒ No

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

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

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

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

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

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)***
Aldrin					0.01

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☒	☐	9.13	9.27	9.7	8.71	400
Color (PCU)	☒	☐	10	10	10	10	—
Nitrate-Nitrite (as N)	☒	☐	<0.2000	<0.2000	<0.2000	0.3880	—
Sulfide (as S)	☒	☐	<0.10	<0.10	<0.10	<0.10	—
Sulfite (as SO3)	☒	☐	<1.00	<1.00	<1.00	<1.00	—
Surfactants	☒	☐	<0.20	<0.20	<0.20	<0.20	—
Boron, total	☒	☐	0.987	0.969	1.07	0.964	20
Cobalt, total	☒	☐	0.0004	0.0003	0.0004	0.0004	0.3
Iron, total	☒	☐	0.101	0.083	0.151	0.294	7
Magnesium, total	☒	☐	19.6	9.41	52	49.1	20
Manganese, total	☒	☐	0.006	0.006	0.008	0.006	0.5
Molybdenum, total	☒	☐	0.005	0.004	0.004	0.004	1
Tin, total	☒	☐	<0.005	<0.005	<0.005	0.006	5
Titanium, total	☒	☐	<0.03	<0.03	<0.03	<0.03	30

Table 6 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☒	☐	9.06	9.19	9.25	8.76	400
Color (PCU)	☒	☐	10	10	15	10	—
Nitrate-Nitrite (as N)	☒	☐	<0.2000	<0.2000	<0.2000	0.3460	—
Sulfide (as S)	☒	☐	<0.10	<0.10	<0.10	<0.10	—
Sulfite (as SO3)	☒	☐	<1.00	<1.00	<1.00	<1.00	—
Surfactants	☒	☐	<0.20	<0.20	<0.20	<0.20	—
Boron, total	☒	☐	0.984	0.971	1.1	0.988	20
Cobalt, total	☒	☐	0.0007	0.0003	0.0004	0.0004	0.3
Iron, total	☒	☐	0.095	0.082	0.158	0.233	7
Magnesium, total	☒	☐	4.72	3.04	54.1	50.6	20

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Manganese, total	☒	☐	0.006	0.006	0.009	0.006	0.5
Molybdenum, total	☒	☐	0.006	0.004	0.004	0.004	1
Tin, total	☒	☐	<0.005	<0.005	<0.005	0.006	5
Titanium, total	☒	☐	<0.03	<0.03	<0.03	<0.03	30

TABLE 7 (Instructions, Page 60)

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

☐ N/A

Table 7 for Applicable Industrial Categories

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	☐ Yes	☐ Yes	☐ Yes	No
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☒ Steam Electric Power Plants	423	☒ Yes	☒ Yes	No	No
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ Yes

* Test if believed present.

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

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

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

Table 8 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein	<50	<50	<50	<50	50
Acrylonitrile	<50	<50	<50	<50	50
Benzene	<10	<10	<10	<10	10
Bromoform	<10	<10	<10	<10	10
Carbon tetrachloride	<2	<2	<2	<2	2
Chlorobenzene	<10	<10	<10	<10	10
Chlorodibromomethane	<2.50	<2.50	<2.50	<2.50	10
Chloroethane	<50	<50	<50	<50	50
2-Chloroethylvinyl ether	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	<10	<10	10
1,1-Dichloroethane	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	10
1,1-Dichloroethylene [1,1-Dichloroethene]	<10	<10	<10	<10	10
1,2-Dichloropropane	<10	<10	<10	<10	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	<10	<10	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Ethylbenzene	<10	<10	<10	<10	10
Methyl bromide [Bromomethane]	<50	<50	<50	<50	50
Methyl chloride [Chloromethane]	<50	<50	<50	<50	50
Methylene chloride [Dichloromethane]	<20	<20	<20	<20	20
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	10
Tetrachloroethylene [Tetrachloroethene]	<10	<10	<10	<10	10
Toluene	<10	<10	<10	<10	10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	10
1,1,2-Trichloroethane	<10	<10	<10	<10	10
Trichloroethylene [Trichloroethene]	<10	<10	<10	<10	10
Vinyl chloride	<10	<10	<10	<10	10

* Indicate units if different from µg/L.

Table 8 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein	<50	<50	<50	<50	50
Acrylonitrile	<50	<50	<50	<50	50
Benzene	<10	<10	<10	<10	10
Bromoform	<10	<10	<10	<10	10
Carbon tetrachloride	<2	<2	<2	<2	2
Chlorobenzene	<10	<10	<10	<10	10
Chlorodibromomethane	<10	<10	<10	<10	10
Chloroethane	<50	<50	<50	<50	50
2-Chloroethylvinyl ether	<10	<10	<10	<10	10
Chloroform	<10	<10	<10	<10	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	<10	<10	10
1,1-Dichloroethane	<10	<10	<10	<10	10
1,2-Dichloroethane	<10	<10	<10	<10	10
1,1-Dichloroethylene	<10	<10	<10	<10	10

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

* Indicate units if different from µg/L.

Table 9 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol	<10	<10	<10	<10	10
2,4-Dichlorophenol	<10	<10	<10	<10	10
2,4-Dimethylphenol	<10	<10	<10	<10	10
4,6-Dinitro-o-cresol	<50	<50	<50	<50	50
2,4-Dinitrophenol	<50	<50	<50	<50	50
2-Nitrophenol	<20	<20	<20	<20	20
4-Nitrophenol	<50	<50	<50	<50	50
p-Chloro-m-cresol	<10	<10	<10	<10	10
Pentachlorophenol	<5	<5	<5	<5	5
Phenol	<10	<10	<10	<10	10
2,4,6-Trichlorophenol	<10	<10	<10	<10	10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: Inlet **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol	<10	<10	<10	<10	10
2,4-Dichlorophenol	<10	<10	<10	<10	10
2,4-Dimethylphenol	<10	<10	<10	<10	10
4,6-Dinitro-o-cresol	<50	<50	<50	<50	50
2,4-Dinitrophenol	<50	<50	<50	<50	50
2-Nitrophenol	<20	<20	<20	<20	20
4-Nitrophenol	<50	<50	<50	<50	50
p-Chloro-m-cresol	<10	<10	<10	<10	10
Pentachlorophenol	<5	<5	<5	<5	5
Phenol	<10	<10	<10	<10	10
2,4,6-Trichlorophenol	<10	<10	<10	<10	10

* Indicate units if different from µg/L.

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

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

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

* Indicate units if different from µg/L.

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

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)**
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

☐ Yes ☒ No

Description: Click to enter text.

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

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

Compound	**Toxicity Equivalent Factors**	**Wastewater Concentration (ppq)**	**Wastewater Toxicity Equivalents (ppq)**	**Sludge Concentration (ppt)**	**Sludge Toxicity Equivalents (ppt)**	**MAL (ppq)**
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

WORKSHEET 4.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

Item 3. Classified Segment (Instructions, Page 80)

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

☐ Yes ☒ No

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

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

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

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

b. Check the appropriate description of the immediate receiving waters:

☒ Lake or Pond

- Surface area (acres): 1,350
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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

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

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

☐ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

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

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Click to enter text.

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

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: Click to enter text.

Date and time of observation: Click to enter text.

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

☐ Yes ☐ No

If **yes**, describe how: Click to enter text.

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

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

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

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

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

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

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

☒ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

WORKSHEET 7.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 7.0: STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

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

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

Item 1. Applicability (Instructions, Page 89)

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

☒ Yes ☐ No

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

Item 2. Stormwater Coverage (Instructions, Page 89)

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

Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
003	☐	☒
006	☐	☒
007	☐	☒
008	☐	☒
009	☐	☒
010	☐	☒
011	☐	☒
013	☐	☒
015	☐	☒
016	☐	☒
017	☐	☒
018	☐	☒
019	☐	☒

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

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

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

Item 3. Site Map (Instructions, Page 90)

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

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

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

Attachment: Facility Map

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

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

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
003	1,310,123 SF	2,120,248 SF

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
006	417,293 SF	496,448 SF
007	224,559 SF	256,910 SF
008	159,047 SF	175,378 SF
009	203, 480 SF	454,727 SF
010	191,787 SF	191,787 SF
011	57,712 SF	57,712 SF
013	19,601 SF	25,151 SF
015	35,904 SF	45,527 SF
016	26,698 SF	39,866 SF
017	5,094 SF	5,094 SF
018	10,509 SF	17,042 SF
019	4517 SF	10,378 SF
101	de minimis	de minimis
201	16,720 SF	16,720 SF
401	de minimis	de minimis
501	50,039 SF	91,040 SF
601	de minimis	de minimis
701	421,068 SF	505,645 SF
801	de minimis	de minimis
901	16,172 SF	16,172 SF

b. Provide the following local area rainfall information and the source of the information.

Wettest month: May

Average rainfall for wettest month (total inches): 4.40

25-year, 24-hour rainfall (inches): 8.04

Source: https://hdsc.nws.noaa.gov/pfds/pfds_map_cont.html?bkmrk=la

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** Stormwater Information

d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment:** Stormwater Information

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: see Stormwater Information attachment

Item 5. Pollutant Analysis (Instructions, Page 91)

a. Provide t
submitte

b. ☒ Che
the date

c. Complet

Please note: Stormwater discharges infrequently at V.H. Braunig Power Station. The only stormwater outfall to discharge within the past year was Outfall 003, so samples were collected for the 09/04/2024 stormwater discharge event. At the time of this application submittal, analytical results for several parameters have not yet been received from the laboratory. Once these analytical results are received, they will be provided to TCEQ in follow-up correspondence.

Table 17 for Outfall No.: 003

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	7	—	7	—	1	—
Total suspended solids	43		43		1	—
Chemical oxygen demand	39.8		39.8		1	—
Total organic carbon	10.8		10.8		1	—
Oil and grease	<4.75		<4.75		1	—
Arsenic, total					1	0.0005
Barium, total	0.072		0.072		1	0.003
Cadmium, total	<0.001		<0.001		1	0.001
Chromium, total	<0.003		<0.003		1	0.003
Chromium, trivalent	<0.003		<0.003		1	—
Chromium, hexavalent	<0.003		<0.003		1	0.003
Copper, total	<0.002		<0.002		1	0.002
Lead, total	0.0007		0.0007		1	0.0005
Mercury, total					1	0.000005
Nickel, total	<0.002		<0.002		1	0.002
Selenium, total					1	0.005
Silver, total	<0.0005		<0.0005		1	0.0005
Zinc, total	0.025		0.025		1	0.005

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

d. Complete Table 18 as directed on pages 92-94 of the Instructions.

Table 18 for Outfall No.: Click to enter text.

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

Attachment: Click to enter text.

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

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

Date of storm event: 09/04/2024

Duration of storm event (minutes): 1440

Total rainfall during storm event (inches): 2.05

Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours): 8064 (48 weeks/11 months

Maximum flow rate during rain event (gallons/minute): 60

Total stormwater flow from rain event (gallons): 86,400

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

Estimated/California Pipe Method (*W/12 hours)

WORKSHEET 11.0

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 11.0: COOLING WATER SYSTEM INFORMATION

V.H. Braunig Power Station is exempt from CWIS requirements under the previous and current water quality permit WQ0001515.

ATTACHMENT – FACILITY MAP

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: FACILITY MAP

Page 1 of 3

15290 STREICH RD, ELMENDORF, TX 78112

Outfall 010 29.268588, -98.387883

TANK 4 - PERMANENTLY CLOSED

TANK 5 - PERMANENTLY CLOSED

TANK 3 - PERMANENTLY CLOSED

TANK 2 - PERMANENTLY CLOSED

STREICH RD

Outfall 009 29.264753, -98.386117

Outfall 003 29.262731, -98.387073

TANK 1

37

DONOP RD

Victor Braunig Lake

Outfall 006 29.258411, -98.385234

Outfall 701 29.258779, -98.379628

Outfall 901 29.257847, -98.380523

Outfall 101 29.257522, -98.380617

Outfall 013 29.257106, -98.380148

Outfall 007 29.257667, -98.385270

Outfall 001- Channel 1 29.256465, -98.385495

BRAUNIG 3

BRAUNIG 1

Outfall 015 29.256292, -98.380334

Outfall 008 29.256700, -98.385084

BRAUNIG 2

Outfall 201 29.255964, -98.383942

Outfall 001- Channel 3 29.255412, -98.382103

Outfall 401 29.255969, -98.382728

Outfall 011 29.255474, -98.381400

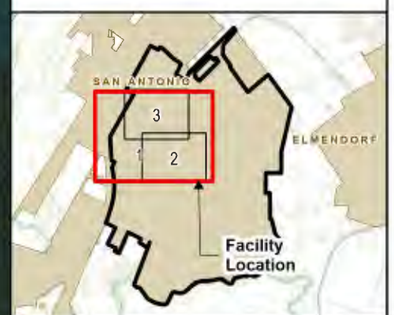
Outfall 001- Channel 2 29.255408, -98.382536

Victor Braunig Lake

Legend

- Outfall
- Property Boundary
- Laydown Yard
- Waterbody

NOTE: This page is an overall facility view and not all outfalls are labeled. Please refer to the following pages for more detailed views and complete labeling of outfalls.



0 300 600

Feet

POWER ENGINEERS

Date: 3/13/2025

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Brauning_SWPPP\0248452_CPS_Brauning_SWPPP.aprx

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: FACILITY MAP

15290 STREICH RD, ELMENDORF, TX 78112

TANK 1
STREICH RD
Victor Braunig Lake
MBL EAST PEAKING TURBINES 6
MBL EAST PEAKING TURBINES 7
MBL EAST PEAKING TURBINES 5
MBL EAST PEAKING TURBINES 8
Outfall 701 29.258779, -98.379628
Outfall 006 29.258411, -98.385234
Outfall 007 29.257667, -98.385270
INTAKE CANAL
Outfall 901 29.257847, -98.380523
Outfall 101 29.257522, -98.380617
Outfall 008 29.256700, -98.385084
BRAUNIG 1
OFFICE
BRAUNIG 2
BRAUNIG 3
AVR
WATER TREATMENT BLDG
Outfall 013 29.257106, -98.380148
MACHINE SHOP
WELDER & GMS SHOPS
ELECTRICIAN SHOP
OIL STORAGE BLDG
INSULATION SHOP
Outfall 001- Channel 1 29.256465, -98.385495
Outfall 015 29.256292, -98.380334
Outfall 201 29.255964, -98.383942
AVR DEMIN. BLDG
Outfall 018 29.256045, -98.380361
Outfall 017 29.255834, -98.380481
DISCHARGE CANAL #3
Outfall 401 29.255969, -98.382728
Outfall 001- Channel 3 29.255412, -98.382103
OIL STORAGE BLDG
491 WAREHOUSE
WAREHOUSE
HAZARDOUS MATERIAL STORAGE BLDG.
Outfall 019 29.255375, -98.382634
Outfall 016 29.255476, -98.381211
Outfall 001- Channel 2 29.255408, -98.382536
Outfall 011 29.255474, -98.381400
DISCHARGE CANAL #2
Outfall 601 29.255336, -98.381920
DISCHARGE CANAL #1
Outfall 801 29.255133, -98.381892
Outfall 501 29.255356, -98.381939

Legend

- Outfall
- Property Boundary
- Waterbody



0 300 600
Feet

POWER ENGINEERS

Date: 3/13/2025

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Brauning_SWPPP\0248452_CPS_Brauning_SWPPP.aprx

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: FACILITY MAP

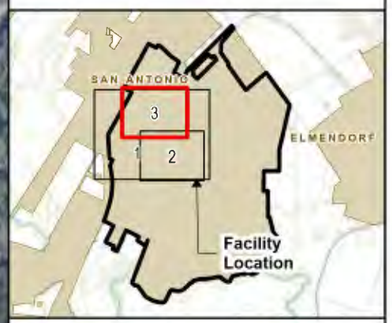
Page 3 of 3

15290 STREICH RD, ELMENDORF, TX 78112



Legend

- Outfall
- Property Boundary
- Laydown Yard
- Waterbody



0 300 600

Feet

POWER ENGINEERS

Date: 3/13/2025

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Brauning_SWPPP\0248452_CPS_Brauning_SWPPP.aprx

ATTACHMENT – WATER BALANCE

---------- INTERMITTMENT FLOW

———————— CONTINUOUS FLOW

CITY WATER SUPPLIES:
- BOILER MAKEUP
- DEMINERALIZER REGENERATION
- REVERSE OSMOSIS SYSTEM
- MISC. COOLING (EXIT FL. & YD. DRAINS)

LAKE WATER SUPPLIES:
- CIRCULATION COOLING WATER
- FLOOR & YARD DRAINS

CIRCULATING COOLING WATER #001 (644,279,600 GPD) DISCHARGE CANAL #3

CIRC. COOL. WATER AND PREVIOUSLY MONITORED EFFLUENTS #001 (295,200,000 GPD)

CIRC. COOL. WATER AND PREV. MON. EFFLUENTS #001 (272,160,000 GPD)

STORM WATER OUTFALLS

BRAUNIG LAKE

MAKEUP WATER

001 COOLING POND DISCHARGE

SAN ANTONIO RIVER

CIRCULATING COOLING WATER (7.9×10^8 GPD)

#101 (30,000 GPD) DEMINERALIZER REGENERANT WASTEWATER

DISCHARGE CANAL #1 COLLECTION BASIN (343,380,000 GPD)

DISCHARGE CANAL #2 COLLECTION BASIN (295,200,000 GPD)

DISCHARGE CANAL #3 COLLECTION BASIN (644,279,600 GPD)

S-

CIRC. COOL. WATER UNIT 5 (69,120,000 GPD)

FLOOR & YARD DRAIN # 801 (2.1×10^6 GPD)

CIR. COOL. WATER (270,035,000 GPD)

FLOOR & YARD DR. # 401 (2.1×10^6 GPD)

BOIL. BLOWDOWN #401 (10,000 GPD)

BOILER BLOWDOWN # 401 (10,000 GPD)

FLOOR & YARD DR. # 401 (2.1×10^6 GPD)

CIRC. COOL. WATER (290,980,000 GPD)

BOILER BLOWDOWN #401 (10,000 GPD)

FLOOR & YARD DR. #401 (2.1×10^6 GPD)

CIRCULATING COOLING WATER DISCHARGE 329,900,000 GPD

FLOOR & YARD DR. #201 (2.1×10^6 GPD)

CIRC. COOL. WATER UNIT 4 (312,249,600 GPD)

NEUT. WATER TREATMENT

UNIT 5 MBL EAST PEAKING TURBINES

UNIT #1

UNIT #2

UNIT #3

UNIT 4 AVR

BOILER MAKE UP UNITS 1,2,3 (30,000 GPD)

DEMINERALIZER (60,000 GPD)

MISC. COOL. (300,000 GPD)

CITY WATER (375,000 GPD)

•FLOW QUANTITIES REPRESENT PLANTS OPERATING AT FULL CAPACITY (5 UNITS)

NO	DATE	REVISION	BY	CK'D	APP
1	9/7/16	CPS REVISION	SEL	JW	JW

V.H. BRAUNING POWER PLANTS WATER FLOW DIAGRAM (PERMIT)

CITY PUBLIC SERVICE
SAN ANTONIO, TEXAS

DRAWN: F.T.S.		Revision Date: 2024/01/15	
CHECKED: B.L.		SCALE: N.A.	
APPROVED: W.D.		SHEET OF	
PROJ.#	ACCT#	ELECTRONIC FILE #	REV.#
N.A.	N.A.	4469.DGN	1
DRAW. FILED	PLT./UNIT	DRAWING #	DRAWING TYPE
PED		4469	PERMIT

ATTACHMENT – CHEMICAL ADDITIVES

Braunig Chemical Additives

VHB #1 Boiler			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Tri-sodium Phosphate	pH adjustment and Raw Water ingress control	daily, when in use	10.375 lbs.
Hydrazine	pH adjustment and Dissolved Oxygen control	daily, when in use	15 gals.
MOPA	pH adjustment	daily, when in use	4.38 gal.
Sodium Hydroxide	pH adjustment	very rarley	variable
VHB #2 Boiler			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Tri-sodium Phosphate	pH adjustment and Raw Water ingress control	daily, when in use	6 lbs.
Hydrazine	pH adjustment and Dissolved Oxygen control	daily, when in use	15 gals.
MOPA	pH adjustment	daily, when in use	5.63 gal.
Sodium Hydroxide	pH adjustment	very rarley	variable
VHB #3 Boiler			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Tri-sodium Phosphate	pH adjustment and Raw Water ingress control	daily, when in use	20.125 lbs.
Hydrazine	pH adjustment and Dissolved Oxygen control	daily, when in use	14.5 gal.
Sodium Hydroxide	pH adjustment	very rarley	variable
MOPA	pH adjustment	daily, when in use	16.25 gals.
AvR High Pressure Steam Drum			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Tri-sodium Phosphate	pH adjustment and Raw Water ingress control	daily	10 lbs.
AvR Intermediate Pressure Steam Drum			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Tri-sodium Phosphate	pH adjustment and Dissolved Oxygen control	daily	10 lbs.
Ammonium Hydroxide	pH control	daily	114 gals.
AvR Demineralizers			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Sulfuric Acid	Regenerate cation resin	weekly	844 gals.
Sodium Hydroxide	Regenerate anion resin	weekly	1617 gals.
Peaker Demineralizer			
Chemical Name	**Use**	**Frequency of Use**	**Quantity**
Hydrochloric Acid	Regenerate cation resin	weekly	1800 gals
Sodium Hydroxide	Regenerate anion resin	weekly	1000 gals
VHB #1 & #2 Once-Through Cooling			
Chemical Name	**Use**	**Frequency of Use**	**Feed Rate**
Sodium Hypochlorite	Condenser sanitation	daily, when in use	2.0 g/m
Sodium Bromide	Condenser sanitation	daily, when in use	0.5 g/m
GC3 D-281	CaCO3 Scale inhibitor	daily, when in use	1.01- 6.0 gph
VHB #3 & AvR			
Chemical Name	**Use**	**Frequency of Use**	**Feed Rate**
Sodium Hypochlorite	Condenser sanitation	daily, when in use	3.5 g/m
Sodium Bromide	Condenser sanitation	daily, when in use	0.9 g/m
GC3 D-281	CaCO3 Scale inhibitor	daily, when in use	1 - 6.0 gph
Peakers Once-Through Cooling Water			
Chemical Name	**Use**	**Frequency of Use**	**Feed Rate**
Sodium Hypochlorite	Condenser sanitation	daily, when in use	2.0 g/m
Sodium Bromide	Condenser sanitation	daily, when in use	0.3 g/m
GC3 D-281	CaCO3 Scale inhibitor	daily, when in use	0.38 - 1.64 gph

[1] V.H. Braunig is a cycling plant. Average daily use for AvR is provided as it is typically the only constant unit on-site. The chemical feeds for VHB1-3 and the peakers, are dependent on unit usage and demin chemicals are dependent on water usage. Thus the quantities provided are at a frequency of daily, when in use.

[2] Feed Rates for Once-Through Cooling chemical usage is provided. The assumption for the Peakers is that both circulating water pumps are running.

[3] MOPA is a supplementatry pH adjuster that is only utitlized at VHB #3 daily, when in use.

[4] Sodium Hydroxide is not used during normal operation, but rather only utilized if there is a need to elevate pH rapidly.

Safety Data Sheet

Where needs take us

RESPONSIBLE CARE®
OUR COMMITMENT TO SUSTAINABILITY

This product is distributed by
Canada Colors and Chemicals Limited
General Inquiry: (905) 459-1730
24 Hour Emergency: (416) 444-2112
CCC: Product Code: 940156
CCC: Product Name: TSP ANHYD. FG GRAN <>

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: TRISODIUM PHOSPHATE ANHYDROUS
Reference Number: AST10064
Date: August 31, 2015

Use of the substance or preparation

Industrial and household cleaners, water conditioner, photograph developer bath ingredient, paint remover, denture cleaners, emulsifier and pH control agent for foods. May be used to treat drinking water.

Company/Undertaking Identification

ICL PERFORMANCE PRODUCTS LP
622 Emerson Road - Suite 500
St. Louis, Missouri 63141

Emergency telephone

In USA call CHEMTREC: 1 800 424 9300

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887

In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. HAZARDS IDENTIFICATION

Classification of the substance/preparation

GHS



Warning

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS No.	%w/w	EINECS No.
Trisodium Phosphate Anhydrous	7601-54-9	100	231-509-8

4. FIRST AID MEASURES

General

Treatment is symptomatic and supportive.

Eye contact

In case of contact with eyes, immediately flush the eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation, pain, swelling, lacrimation, or photophobia persists.

Skin contact

Immediately remove this material from skin and wash with plenty of water. Remove contaminated clothing. Wash clothing and thoroughly clean shoes before reuse.

Inhalation

Inhalation of the dust may cause coughing and sneezing. Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately. Contact a Poison Control Center. Swallowing this product may cause severe nausea, vomiting, abdominal discomfort, and burning sensation.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Unsuitable extinguishable media

Non-combustible. No special requirement.

Exposure hazards

No special considerations.

Protective equipment

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

Environmental precautions

Small quantities: Avoid discharge into the environment
Large quantities: Avoid discharge into the environmental – See section 15

Method for cleaning up

Sweep, scoop or vacuum spill material, contaminated soil and other contaminated material and place in clean, dry containers for removal. If possible, complete cleanup on a dry basis.

7. HANDLING AND STORAGE

Handling

Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Do not taste or swallow. Use only in adequate ventilation. Wash thoroughly after handling. Remove material from clothing.

Engineering measures

Ensure adequate ventilation. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Storage

Store in cool, dry place to maintain product performance. Product should be stored in sealed containers and be kept free of water due to product corrosivity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

ACGIH TLV 10 mg/m^3 (inhalable) 8-hr TWA, 3 mg/m^3 (respirable) 8-hr TWA
OSHA PEL 15 mg/m^3 (total dust) 8-hr TWA, 5 mg/m^3 (respirable) 8-hr TWA

Respiratory protection

Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment as described in OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/Skin protection

Wear protective gloves is recommended; wash hands and contaminated skin thoroughly after handling.

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA eye and face regulation in 29 CFR 1910.133 or European Standard EN166.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance: White free-flowing granular product
b) Odor: None
c) Odor threshold: N/A
d) pH: (as a 1% solution): 11.5 – 12.0
e) Melting point/freezing point: 1340 °C
f) Initial boiling point and boiling range: Undetermined.
g) Flash point: Undetermined
h) Evaporation rate: Undetermined.
i) Flammability (solid, gas) : Undetermined.
j) Upper/lower flammability or explosive limits: Undetermined.
k) Vapor pressure: Undetermined.
l) Vapor density: Undetermined.
m) Relative density: 2.54
n) Solubility(ies) : (g/100g $_{H2O}$): 5.4 @ 0 °C
14.5 @ 25 °C
23.3 @ 40 °C
54.3 @ 60 °C
94.6 @ 100 °C
o) Partition coefficient: n-octanol/water: Undetermined.
p) Auto-ignition temperature: Undetermined.
q) Decomposition temperature: Undetermined.
r) Viscosity: Undetermined.

Chemical Formula: Na_3PO_4

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Product is stable under normal conditions of storage and handling.

Conditions to avoid

Store product in dry areas away from moisture. This product could be corrosive to aluminum surfaces due to high pH. When wet, mild steel and brass may be corroded.

Materials to avoid

Incompatible with strong mineral acids, aluminum and moisture.

Hazardous decomposition

Oxides of sodium and phosphorus may form when heated to decomposition

11. TOXICOLOGICAL INFORMATION

Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

Oral - rat LD_{50}:	4,150 mg/kg; slightly toxic
Dermal - rabbit LD_{50}:	>7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit:	corrosive
Skin Irritation - rabbit:	2.2/8.0 (24-hr. exp.); slightly irritating

This product produced no mutagenic effects is standard assays using fruit flies.

12. ECOLOGICAL INFORMATION

Environmental toxicity

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate: 50-hr EC_{50} Daphnia magna:	177 mg/L; Practically Nontoxic
Warmwater fish: 96-hr LC_{50} Bluegill sunfish:	220 mg/L; Practically Nontoxic
Coldwater fish: 96-hr LC_{50} Rainbow trout:	120 mg/L; Practically Nontoxic

No definitive algal data was available for this material.

Environmental fate

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Road/Rail, Sea and Air

IMDG/UN	Not regulated.
ICAO/IATA passenger aircraft	UN 3077, Environmentally hazardous substance, solid, n.o.s. (contains sodium phosphate, tribasic), 9, PG III*
RID/ADR	Not regulated.
Canadian TDG	Not regulated.
US DOT	UN 3077, Environmentally hazardous substance, solid, n.o.s. (contains sodium phosphate, tribasic), 9, PG III*

* Applies only to a package containing a Reportable Quantity (RQ) of 5000 lbs or more.

15. REGULATORY INFORMATION

Chemical Inventory

USA TSCA:	Listed	Australia	Listed
Canada DSL:	Listed	Korea	Listed
EC:	Listed	Philippines	Listed
Japan	Listed	China	Listed

Other information

Germany: WGK = 1

WHMIS Classification: D2(B) – Materials Causing Other Toxic Effects

SARA Hazard Notification

Hazard Categories under Title III Rules (40 CFR 370):	Immediate
Section 302 Extremely Hazardous Substances:	Not Applicable
Section 313 Toxic Chemical(s):	Not Applicable

CERCLA Reportable Quantity: 5,000 lb. RQ of sodium phosphate, tribasic

Release of more than 5000 pounds of sodium phosphate, tribasic to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

16. OTHER INFORMATION

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	3	0	0	
Suggested HMIS Rating	3	0	0	E E = safety glasses, gloves, dust respirator

Reason for revision: Section 14. Supersedes MSDS dated: May 21, 2015

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SAFETY DATA SHEET
Hydrazine Solution- Catalyzed

Printed: 09/13/2018
Revision: 08/25/2018
Supersedes Revision: 08/25/2014

1. Product and Company Identification

Product Code: B172C
Product Name: Hydrazine Solution- Catalyzed
Trade Name: B-172C

Company Name: GC3 Specialty Chemicals, Inc.
733 Heights Blvd.
Houston, TX 77007

Phone Number: (713)802-1761

Web site address: www.gc3.com

Emergency Contact: CHEMTREC: 800-424-9300
Information: 713-802-1761

Synonyms: Hydrazine hydrate

2. Hazards Identification

Acute Toxicity: Oral, Category 3
Acute Toxicity: Skin, Category 3
Skin Corrosion/Irritation, Category 1B
Skin Sensitization, Category 1
Acute Toxicity: Inhalation, Category 3
Carcinogenicity, Category 1B



Danger **Danger** **Warning** **Danger**

GHS Hazard Phrases:
H226 - Flammable liquid and vapor.
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H350 - May cause cancer .

GHS Precaution Phrases:
P233 - Keep container tightly closed.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P243 - Take precautionary measures against static discharge.
P242 - Use only non-sparking tools.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P361+364 - Take off immediately all contaminated clothing and wash it before reuse.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P362+364 - Take off contaminated clothing and wash it before reuse.
P271 - Use only outdoors or in a well-ventilated area.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P281 - Use personal protective equipment as required.
P273 - Avoid release to the environment.

GHS Response Phrases:
P370+378 - In case of fire, use ... to extinguish.

	P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 - Rinse mouth. P321 - Specific treatment see First Aid Measures on Safety Data Sheet. P302+352 - IF ON SKIN: Wash with plenty of soap and water. P312 - Call a POISON CENTER/doctor/... if you feel unwell. P363 - Wash contaminated clothing before reuse. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTER/doctor/... P333+313 - If skin irritation or rash occurs, seek medical advice/attention. P311 - Call a POISON CENTER/doctor/... P322 - Specific measures see ... on this label. P308+313 - IF exposed or concerned: Get medical attention/advice. P391 - Collect spillage. P310 - Immediately call a POISON CENTER or doctor/physician. P361 - Remove/Take off immediately all contaminated clothing.
GHS Storage and Disposal Phrases:	P403+235 - Store in cool/well-ventilated place. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. P405 - Store locked up. P403+233 - Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.
OSHA Regulatory Status:	This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):	Chronic: Repeated inhalation may cause chronic bronchitis. May cause cancer according to animal studies. Repeated exposure may cause sensitization dermatitis. May cause reproductive and fetal effects.
Inhalation:	Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. May cause liver and kidney damage. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Vapors may cause dizziness, nausea, itching, burning, and swelling of the eyes.
Skin Contact:	May be fatal if absorbed through the skin. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Contact with liquid is corrosive and causes severe burns and ulceration. Contact with the skin may dissolve hair.
Eye Contact:	May cause irreversible eye injury. Exposure to the vapors or liquid may cause temporary blindness. Causes severe eye irritation and burns.
Ingestion:	Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver and kidney damage. Causes digestive tract burns with immediate pain, swelling of the throat, convulsions, and possible coma. Exposure may cause anemia and other blood abnormalities.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
302-01-2	Hydrazine	35.0 %
123-31-9	Hydroquinone	< 1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

In Case of Skin Contact: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.

In Case of Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: > 100.00 C (212.0 F) Method Used: Estimate

Explosive Limits: LEL: 9.3 UEL: 83.4

Autoignition Pt: > 310.00 C (590.0 F)

Suitable Extinguishing Media: For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Autoignition temperature varies based upon contact surface. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. May be ignited by heat, sparks, and flame. Vapors may form explosive mixtures with air.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Do not get water inside containers. Approach spill from upwind. Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Control runoff and isolate discharged material for proper disposal.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat, sparks and flame. Use only with adequate ventilation or respiratory protection.

Precautions To Be Taken in Storing: Keep away from heat, sparks and flame. Keep away from sources of ignition. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Storage under a nitrogen blanket has been recommended. Isolate from oxidizing materials and acids.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
302-01-2	Hydrazine	PEL: 1 ppm	TLV: 0.01 ppm	No data.
123-31-9	Hydroquinone	PEL: 2 mg/m3	TLV: 2 mg/m3	No data.

Respiratory Equipment (Specify Type): Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Eye Protection: Wear chemical splash goggles and face shield.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

9. Physical and Chemical Properties

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: Clear.
ammonia-like.

pH: > 12

Freezing Point: ~ -65.00 C (-85.0 F)

Boiling Point: ~ 109.30 C (228.7 F)

Flash Pt: > 100.00 C (212.0 F) Method Used: Estimate

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 9.3 UEL: 83.4

Vapor Pressure (vs. Air or mm Hg): 15 MBAR at 20.0 C (68.0 F)

Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	1.01 - 1.03 at 20.0 C (68.0 F)
Solubility in Water:	soluble
Octanol/Water Partition Coefficient:	No data.
Percent Volatile:	100.0 % by weight.
Autoignition Pt:	> 310.00 C (590.0 F)
Decomposition Temperature:	No data.
Viscosity:	~ 1.26

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	Light, ignition sources, Moisture.
Incompatibility - Materials To Avoid:	acids, Oxidizing agents.
Hazardous Decomposition or Byproducts:	oxides of nitrogen, ammonia and/or derivatives.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:

CAS# 302-01-2: Reproductive Effects:, TCLo, Inhalation, Rat, 4.000 MG/M3, 2 H, female 7-20 day(s) after conception. Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). ; Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 39(10),23, 1974

Reproductive Effects:, TCLo, Inhalation, Rat, 1.000 MG/M3, 24 H, female 1-11 day(s) after conception. Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death. ; Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 39(10),23, 1974

Reproductive Effects:, TDLo, Skin, Rat, 50.00 MG/KG, female 9 day(s) after conception. Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). ; National Technical Information Service, Vol/p/yr: AD-A119-70,

Acute toxicity, LD50, Oral, Rat, 60.00 MG/KG; Medycyna Pracy. Industrial Medicine., Ars-Polona, POB 1001, 00-068, Warsaw 1 Poland, Vol/p/yr: 24,71, 1973

Acute toxicity, LC50, Inhalation, Rat, 570.0 PPM, 4 H. Result: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea. ; AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 12,609, 1955

Acute toxicity, LD50, Skin, Species: Rabbit, 91.00 MG/KG; AMA Archives of Industrial Hygiene and Occupational Medicine., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 9,199, 1954

Tumorigenic Effects:, TDLo, Oral, Rat, 900.0 MG/KG, 2 Y. Result: Tumorigenic: Neoplastic by RTECS criteria. Liver: Tumors. ; Experimental Pathology, Elsevier Scientific Pub. Ireland Ltd., POB 85, Limerick Ireland, Vol/p/yr: 33,133, 1988

Tumorigenic Effects:, TCLo, Inhalation, Rat, 5.000 PPM, 6 Y. Result: Tumorigenic: Carcinogenic by RTECS criteria. Endocrine:Thyroid tumors. ; Fundamental and Applied

Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 5,1050, 1985
Tumorigenic Effects:, Patch test (humans): negative., Inhalation, Rat, 5.000 PPM, 6 Y. Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Tumors. ; Proceedings of the American Association for Cancer Research., Waverly Press, 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 21,74, 1980
Tumorigenic Effects:, Patch test (humans): negative., Inhalation, Rat, 1.000 PPM, 6 Y. Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Tumors. ; Proceedings of the American Association for Cancer Research., Waverly Press, 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 21,74, 1980
Tumorigenic Effects:, Patch test (humans): negative., Inhalation, Species: Hamster, 5.000 PPM, 6 Y. Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Tumors. ; Proceedings of the American Association for Cancer Research., Waverly Press, 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 21,74, 1980

Carcinogenicity/Other Information: CAS# 302-01-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.
California: carcinogen, initial date 1/1/88. NTP: Suspect carcinogen.

Carcinogenicity: NTP? Unknown IARC Monographs? Unknown OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
302-01-2	Hydrazine	Possible	2B	A3	n.a.
123-31-9	Hydroquinone	n.a.	3	A3	n.a.

12. Ecological Information

General Ecological Information: Environmental: Biodegradation is not expected to be significant when large amounts of hydrazine are released due to the high microbial toxicity of hydrazine; at lower concentrations, however, hydrazine biodegradation could be important. Volatilization of hydrazine should not be important from moist soil surfaces given an estimated Henry's Law constant of 6.1X10-7 atm-cu m/mole, calculated from experimental values for vapor pressure and water solubility.
Physical: No information available.
Other: Bioconcentration in guppies was studied using a hydrazine concentration in water of 0. After 96 hours, the concentration of hydrazine in guppies was about 144 ug/g. These values give a bioconcentration factor of 316. An estimated BCF value of 0.01 was calculated for hydrazine, using a measured log Kow of -2.07(2) and a recommended regression-derived equation.
CAS# 302-01-2: LC50, Fathead Minnow (Pimephales promelas), 5980. UG/L, 96 H, Mortality, Water temperature: 20.00 C (68.0 F) C, pH: 6.95; Acute Toxicity of Hydrazine Hydrate to the Fathead Minnow (Pimephales promelas) and Daphnid (Daphnia pulex), Velte, J.S., 1984
LC50, Fathead Minnow (Pimephales promelas), 2840. UG/L, 96 H, Mortality, Water temperature: 22.80 C (73.0 F) C, pH: 7.34, Hardness: 51.00 MG/L; Report of the Flow-Through and Static Acute Test Comparisons with Fathead Minnows and Acute Tests with an Amphipod and a Cladoceran, Brooke, L., 1987
Effective concentration to 50% of test organisms., Water Flea (Daphnia pulex), larva(e), 160.0 UG/L, 48 H, Intoxication,, Water temperature: 20.00 C (68.0 F) C, pH: 7.10; Acute Toxicity of Hydrazine Hydrate to the Fathead Minnow (Pimephales promelas) and Daphnid (Daphnia pulex), Velte, J.S., 1984

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 302-01-2: waste number U133 (Reactive waste, Toxic waste).

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Hydrazine, aqueous solution.
DOT Hazard Class: 6.1 POISON
UN/NA Number: 3293 **Packing Group:** III





MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:
UN Number: 3293 **Packing Group:** III
Hazard Class: 6.1 - POISON
IMDG MFAG Number:
IMDG EMS Page: **Marine Pollutant:** Yes

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
302-01-2	Hydrazine	Yes 1000 LB	Yes 1 LB	Yes
123-31-9	Hydroquinone	Yes 500 LB	Yes 100 LB	Yes

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No	Explosive	[X] Yes [ ] No	Acute toxicity (any route of exposure)
[ ] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [ ] No	Skin Corrosion or Irritation
[ ] Yes [X] No	Oxidizer (liquid, solid or gas)	[ ] Yes [X] No	Serious eye damage or eye irritation
[ ] Yes [X] No	Self-reactive	[X] Yes [ ] No	Respiratory or Skin Sensitization
[ ] Yes [X] No	Pyrophoric (liquid or solid)	[ ] Yes [X] No	Germ cell mutagenicity
[ ] Yes [X] No	Pyrophoric gas	[X] Yes [ ] No	Carcinogenicity
[ ] Yes [X] No	Self-heating	[ ] Yes [X] No	Reproductive toxicity
[ ] Yes [X] No	Organic peroxide	[ ] Yes [X] No	Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No	Corrosive to metal	[ ] Yes [X] No	Aspiration Hazard
[ ] Yes [X] No	Gas under pressure (compressed gas)	[ ] Yes [X] No	Simple Asphyxiant
[ ] Yes [X] No	In contact with water emits flammable gas	[X] Yes [ ] No	(Health) Hazard Not Otherwise Classified (HNOC)
[ ] Yes [X] No	Combustible Dust		
[ ] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)		

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
302-01-2	Hydrazine	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: Canc.; CA TAC, Title 8: TAC: Cat. IIa, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes: NC TAP; NJ EHS: Yes - 1006; NY Part 597: Yes: AHS; PA HSL: Yes - B; SC TAP: Yes; WI Air: Yes
123-31-9	Hydroquinone	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IVa, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes: US HAP; NJ EHS: Yes

- 1019; NY Part 597: Yes: HS; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

16. Other Information

Revision Date: 08/25/2018

Additional Information About This Product: No data available.

Company Policy or Disclaimer: The information presented herein is based on the content of a Safety Data Sheet provided by one or more manufacturers, raw material suppliers, or other responsible parties. Although the information provided herein is an accurate presentation of the original Safety Data Sheet safety information, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The informaton in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantees of the properties of the product.

1. Product and Company Identification

Product Code: B570X40
Product Name: Neutralizing Amine
Trade Name: B-570X40

Company Name: GC3 Specialty Chemicals, Inc.
733 Heights Blvd.
Houston, TX 77007

Phone Number: (713)802-1761

Web site address: www.gc3.com
Emergency Contact: CHEMTREC: 800-424-9300
Information: 713-802-1761

2. Hazards Identification

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1
Skin Sensitization, Category 1B
Flammable Liquids, Category 3



Warning **Danger** **Warning**

GHS Hazard Phrases:
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Flammable liquid and vapor.

GHS Precautionary Phrases:
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash it before reuse.
Keep container tightly closed.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/.../ equipment.
Take precautionary measures against static discharge.
Use only non-sparking tools.

GHS Response Phrases:
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Immediately call a POISON CENTER/doctor/....
Specific treatment see First Aid Measures on Safety Data Sheet.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs, seek medical advice/attention.
In case of fire, use ... to extinguish.

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance with local/regional/national/international regulations.
Store locked up.
Store in cool/well-ventilated place.

Inhalation: Causes chemical burns to the respiratory tract. Inhalation may cause severe irritation to the respiratory tract with sore throat, coughing, labored breathing, and possible pulmonary edema.

Skin Contact: Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.

Eye Contact: Causes eye burns. May cause blindness.

Ingestion: May cause severe and permanent damage to the digestive tract.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
5332-73-0	1-Propanamine, 3-Methoxy-	40.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

In Case of Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: 135.00 F (57.2 C) Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: 270.00 C (518.0 F)

Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Water may be ineffective. Do NOT use straight streams of water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Vapors are heavier than air and may travel to a source of ignition and flash back.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Approach spill from upwind.

7. Handling and Storage

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Do not breathe dust, mist, or vapor.
Precautions To Be Taken in Storing:	Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Store protected from moisture. Store in air tight containers. Should not be exposed to temperatures above 122°F (50°C).

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
5332-73-0	1-Propanamine, 3-Methoxy-	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	Depending on airborne concentration, use an appropriate full-face NIOSH approved respirator with organic vapor or ammonia methylamine cartridges. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Eye Protection:	Wear chemical splash goggles and face shield.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	colorless. amine-like.
pH:	11.5 - 12
Melting Point:	-65.00 C (-85.0 F)
Boiling Point:	118.00 C (244.4 F)
Flash Pt:	135.00 F (57.2 C) Method Used: Estimate
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	0.97
Solubility in Water:	miscible
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	270.00 C (518.0 F)
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	ignition sources, Moisture, Excess heat.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Strong acids, Aldehydes.
Hazardous Decomposition or Byproducts:	Nitrogen oxides, Carbon monoxide.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information: Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

Carcinogenicity/Other Information: CAS# 5332-73-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
5332-73-0	1-Propanamine, 3-Methoxy-	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

Bioaccumulative Potential: CAS 5332-73-0: This material is not readily biodegradable (<10% after 28-days; OECD 301A).

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Amines, liquid, corrosive, flammable, n.o.s. (contains methoxypropylamine)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN2734 **Packing Group:** II





15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
5332-73-0	1-Propanamine, 3-Methoxy-	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No Explosive
[X] Yes [ ] No Flammable (gases, aerosols, liquid, or solid)
[ ] Yes [X] No Oxidizer (liquid, solid or gas)
[ ] Yes [X] No Self-reactive
[ ] Yes [X] No Pyrophoric (liquid or solid)
[ ] Yes [X] No Pyrophoric gas
[ ] Yes [X] No Self-heating
[ ] Yes [X] No Organic peroxide
[ ] Yes [X] No Corrosive to metal
[ ] Yes [X] No Gas under pressure (compressed gas)
[ ] Yes [X] No In contact with water emits flammable gas
[ ] Yes [X] No Combustible Dust
[ ] Yes [X] No (Physical) Hazard Not Otherwise Classified (HNOC)
[X] Yes [ ] No Acute toxicity (any route of exposure)
[X] Yes [ ] No Skin Corrosion or Irritation
[X] Yes [ ] No Serious eye damage or eye irritation
[X] Yes [ ] No Respiratory or Skin Sensitization
[ ] Yes [X] No Germ cell mutagenicity
[ ] Yes [X] No Carcinogenicity
[ ] Yes [X] No Reproductive toxicity
[ ] Yes [X] No Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No Aspiration Hazard
[ ] Yes [X] No Simple Asphyxiant
[ ] Yes [X] No (Health) Hazard Not Otherwise Classified (HNOC)

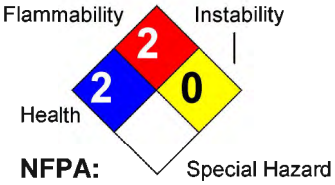
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
5332-73-0	1-Propanamine, 3-Methoxy-	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No

Regulatory Information Statement:

16. Other Information

Revision Date: 10/10/2019

Hazard Rating System:



Additional Information About This Product: No data available.

RICCA CHEMICAL COMPANY

MSDS

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Catalog Number:

7244, 7244.2, 7245, 7246, 7247, 7250, 7250.W, 7252, 7253, 7254, 7256, 7283.9, 7400, 7401, 7402, 7416, 7440, 7445, 7448, 7449, 7450, 7450A, 7451, 7451.1, 7451.4, 7452, 7453, INTEL005, R7245900, R7251000, R7435000, R7442000, R7450010, R74500UL, R7450100, R7450200, R7450500, R7450503, R7450505, R7450510, R7453700, R7454000, S-358, S-371, S-390, S-425, S-429, SX-1074, SX-1173, SX-904, SX-946, TXRC740032, TXRC7450-32ANP, TXRC745032

Product Identity:
SODIUM HYDROXIDE SOLUTIONS, 0.5 - 1.99 Normal, 2 - 8.16% (w/v), 1.8 - 7.5% (w/w) Aqueous

Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	**Emergency Contact(24 hr) --** CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887
CAGE Code: 4TCW6, 0V553, 4XZQ2	
Address: 448 West Fork Dr Arlington, TX 76012	**Telephone Number For Information:** 817-461-5601
Date Prepared: 6/7/99	**Revision:** 31 Last Revised: 04/20/2011 Date Printed: 11/14/2011 2:49:40 pm

Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	1.8 - 7.5	Not Available C 2 mg/m3	Not Available 2 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available Not Available	Not Available Not Available

Section 3: Hazard Identification

Emergency Overview: Mildly corrosive, non-flammable, non-toxic. Wash areas of contact with water for at least 15 minutes. Call a physician if irritation develops.

Target Organs: eyes, skin, respiratory system.

Eye Contact: May cause irritation and burns.

Inhalation: Effects from inhalation of mist vary from mild irritation to serious damage of the upper respiratory tract , depending on severity of exposure.

Skin Contact: May cause irritation, redness, and pain.

Ingestion: May cause burns of the mouth, throat and stomach. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure.

Chronic Effects/Carcinogenicity: Prolonged or repeated exposure may cause dermatitis.

IARC - No.

NTP - No.

OSHA - No.

Reproductive Information: Not Applicable.
Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Hydroxide. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Hydroxide.

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.
Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

Section 5: Fire Fighting Measures

Flash Point: Not Available.
Method Used: Not Available.
LFL: Not Available.
UFL: Not Available.
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.
Fire Fighting Instructions: Use normal procedures/instructions.
Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Collect liquid and dilute with water. Neutralize with dilute acid solutions. Release to drain if local regulations allow. For larger spills, absorb with suitable material (vermiculite, clay, etc.). Collect the solid residue and save for disposal.

Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not mix with acids.
Safety Storage Code: Corrosive

Section 8: Exposure Control/Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.
Respiratory Protection: Normal room ventilation is adequate.
Skin Protection: Chemical resistant gloves.
Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid
Odor: Odorless
Solubility in Water: Inifinite
Specific Gravity: approximately 1.02 - 1.08
pH: >12
Boiling Point(°C): Approximately 100
Melting Point(°C): Approximately 0
Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.
Incompatibility: Acids, organic halogen compounds, metals such as aluminum, tin and zinc.
Hazardous Decomposition Products: Sodium Oxide, decomposition by reaction with certain metals releases flammable and explosive Hydrogen gas.
Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

No LD50 (oral, rat) information available from "Registry of Toxic Effects of Chemical Substances". Irritation data: skin, rabbit: 500 mg/24H severe; eye, rabbit: 50 ug/24H severe. Investigated as a mutagen (Sodium Hydroxide).

Section 12. Ecological Information

Ecotoxicological Information: Sodium Hydroxide has high acute and chronic toxicity to aquatic life. The toxicity is influenced by the hardness and alkalinity of the receiving water. Insufficient data are available to evaluate the short and long term effects to plants , birds and land animals.

Chemical Fate Information: Sodium Hydroxide is not expected to accumulate in the edible tissues of aquatic life that are normally consumed by humans.

Section 13. Disposal Considerations

Dilute with water, neutralize with dilute acid solutions, then wash the resulting solution down the drain with plenty of water if local regulations allow. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers: 7244.2-1, 7244.2-32, 7245-1, 7247-1, 7247-16, 7247-32, 7247-5, 7250-1, 7250-16, 7250-32, 7250-4, 7250-5, 7250-55, 7250-8, 7253-16, 7254-1, 7254-32, 7256-16, 7256-32, 7256-55, 7400-1, 7400-16, 7400-1CT, 7400-2.5, 7400-32, 7400-4, 7400-5, 7400-55, 7400-5HP, 7401-1, 7401-32, 7402-1, 7416-1, 7416-32, 7416-5, 7445-1, 7448-2.5, 7448-5, 7450-1, 7450-16, 7450-1CT, 7450-2.5, 7450-32, 7450-4, 7450-5, 7450-55, 7451-1, 7451-5, 7451.4-1, 7452-1, 7452-5, 7453-5, R7245900-10F, R7251000-1A, R7435000-20F, R7442000-4A, R7450010-1A, R74500UL-1A, R7450100-1A, R7450200-1A, R7450200-20E1, R7450200-20F, R7450500-1A, R7450500-4A, R7450503-20F, R7450505-4A, R7450510-250A, R7453700-20F, R7453700-4A, R7454000-4A, S-358 20-LT, S-358 4-LT, S-358 500ML, S-358 LT, S-390 10-LT, S-390 20-LT, S-390 200-LT, S-390 250ML, S-390 4-LT, S-390 500ML, S-390 LT, S-425 10-LT, S-425 20-LT, S-425 4-LT, S-425 4-LTC, S-425 500ML, S-425 LT, S-429 20-LT, SX-1074 20LT, SX-1173 20-LT, SX-904 20-LT, SX-904 4-LT, SX-904 LT, SX-946 20-LT, SX-946 4-LT,

D.O.T. Shipping Name: Sodium Hydroxide Solution
D.O.T. Hazard Class: 8
U.N. / N.A. Number: UN1824
Packing Group: III
D.O.T. Label: 8



Part Numbers: 7250-10A

D.O.T. Shipping Name: Small Quantity Exception ('This package conforms to 49 CFR 173.4 for domestic highway or rail transport only.')
D.O.T. Hazard Class: N/A
U.N. / N.A. Number: N/A
Packing Group: III
D.O.T. Label: N/A

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Catagories: Acute: Yes Chronic, Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List. Sodium Hydroxide is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Sodium Hydroxide - 1,000 pounds. Sodium Hydroxide - 1,000 pounds.

WHMIS: E: Corrosive Material.



Section 16. Other Information

NFPA Ratings:

Health: 2	Flammability: 0	Reactivity: 0	Special Notice Key:None

HMIS Ratings:

Health: 2	Flammability: 0	Reactivity: 0	Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 8-9-98: (Section 1) added CATALOG NUMBER 7254.
Rev 2, 9-24-99: Reformatted to Microsoft Word® from WordPerfect®.
Rev 3, 12-9-99: (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300.
Rev 4, 3-28-2000: (Section 1) added Catalog Number 7244.2.
Rev 5, 7-10-2000: (Section 1) added Catalog Number 7283.9.
Rev 6, 10-09-2001: Reformatted to electronic data format.
Rev 7, 01-21-2002: (Section 1) added catalog number 7450A.
Rev 8, 07-11-2002: (Section 1) added catalog number 7451.1.
Rev 9, 09-04-2003: (Section 14) revised DOT proper shipping name from Corrosive liquid, basic, inorganic, nos.
Rev 10, 01-07-2004: (Section 1) added catalog number R7450500.
Rev 11, 03-10-2004: (Section 1) added catalog numbers TXRC740032, TXRC7450-32ANP and TXRC745032.
Rev 12, 05-27-2004: (Section 1) added catalog number R7450200.
Rev 13, 07-28-2004: (Section 1) added catalog number R7454000.
Rev 14, 11-16-2005: (Section 1) added catalog number R7450505.
Rev 15, 12-15-2005: (Section 1) added catalog number R7453700 and Red Bird catalog number S-358.
Rev 16, 01-26-2006: (Section 1) added Red Bird catalog number SX-904.
Rev 17, 02-01-2006: (Section 1) added catalog number R7450100.
Rev 18, 04-28-2006: (Section 1) added catalog number R7435000.
Rev 19, 05-18-2006: (Section 8) corrected engineering controls from work in fume hood.
Rev 20, 06-08-2006: (Section 1) added catalog number R74500UL.
Rev 21, 09-29-2006: (Section 1) added catalog number R7442000.
Rev 22, 10-31-2006: (Section 1) added Red Bird catalog number S-429.
Rev 23, 11-27-2006: (Section 1) added catalog number R7450510.
Rev 24, 02-16-2007: (Section 1) added Red Bird catalog number SX- 1173.
Rev 25, 09-10-2007: (Section 1) added Red Bird catalog number S-371.
Rev 26, 08-01-2008: (Section 1) added Red Bird catalog number SX-1074.
Rev 27, 09-02-2008: (Section 1) added catalog number R7251000.
Rev 28, 10-21-2009: (Section 1) added catalog number 7451.4.
Rev 29, 04-23-2010: (Section 1) added catalog number R7245900.
Rev 30, 08-05-2010: (Section 1) added catalog number R7450503.
Rev 31, 04-20-2011: (Section 1) added catalog number R7450010.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

Safety Data Sheet

Where needs take us

RESPONSIBLE CARE®
OUR COMMITMENT TO SUSTAINABILITY

This product is distributed by
Canada Colors and Chemicals Limited
General Inquiry: (905) 459-1730
24 Hour Emergency: (416) 444-2112
CCC: Product Code: 940156
CCC: Product Name: TSP ANHYD. FG GRAN <>

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: TRISODIUM PHOSPHATE ANHYDROUS
Reference Number: AST10064
Date: August 31, 2015

Use of the substance or preparation

Industrial and household cleaners, water conditioner, photograph developer bath ingredient, paint remover, denture cleaners, emulsifier and pH control agent for foods. May be used to treat drinking water.

Company/Undertaking Identification

ICL PERFORMANCE PRODUCTS LP
622 Emerson Road - Suite 500
St. Louis, Missouri 63141

Emergency telephone

In USA call CHEMTREC: 1 800 424 9300

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887

In Canada call CANUTEC: 1 613 996 6666

General Information: +1 800 244 6169 (Worldwide)

2. HAZARDS IDENTIFICATION

Classification of the substance/preparation

GHS



Warning

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS No.	%w/w	EINECS No.
Trisodium Phosphate Anhydrous	7601-54-9	100	231-509-8

4. FIRST AID MEASURES

General

Treatment is symptomatic and supportive.

Eye contact

In case of contact with eyes, immediately flush the eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation, pain, swelling, lacrimation, or photophobia persists.

Skin contact

Immediately remove this material from skin and wash with plenty of water. Remove contaminated clothing. Wash clothing and thoroughly clean shoes before reuse.

Inhalation

Inhalation of the dust may cause coughing and sneezing. Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately. Contact a Poison Control Center. Swallowing this product may cause severe nausea, vomiting, abdominal discomfort, and burning sensation.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Unsuitable extinguishable media

Non-combustible. No special requirement.

Exposure hazards

No special considerations.

Protective equipment

As a general precaution, firefighters and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

Environmental precautions

Small quantities: Avoid discharge into the environment
Large quantities: Avoid discharge into the environmental – See section 15

Method for cleaning up

Sweep, scoop or vacuum spill material, contaminated soil and other contaminated material and place in clean, dry containers for removal. If possible, complete cleanup on a dry basis.

7. HANDLING AND STORAGE

Handling

Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Do not taste or swallow. Use only in adequate ventilation. Wash thoroughly after handling. Remove material from clothing.

Engineering measures

Ensure adequate ventilation. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Storage

Store in cool, dry place to maintain product performance. Product should be stored in sealed containers and be kept free of water due to product corrosivity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limit

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

ACGIH TLV 10 mg/m^3 (inhalable) 8-hr TWA, 3 mg/m^3 (respirable) 8-hr TWA
OSHA PEL 15 mg/m^3 (total dust) 8-hr TWA, 5 mg/m^3 (respirable) 8-hr TWA

Respiratory protection

Avoid breathing dust. In case of insufficient ventilation, use approved respiratory protective equipment as described in OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/Skin protection

Wear protective gloves is recommended; wash hands and contaminated skin thoroughly after handling.

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA eye and face regulation in 29 CFR 1910.133 or European Standard EN166.

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance: White free-flowing granular product
b) Odor: None
c) Odor threshold: N/A
d) pH: (as a 1% solution): 11.5 – 12.0
e) Melting point/freezing point: 1340 °C
f) Initial boiling point and boiling range: Undetermined.
g) Flash point: Undetermined
h) Evaporation rate: Undetermined.
i) Flammability (solid, gas) : Undetermined.
j) Upper/lower flammability or explosive limits: Undetermined.
k) Vapor pressure: Undetermined.
l) Vapor density: Undetermined.
m) Relative density: 2.54
n) Solubility(ies) : (g/100g $_{H2O}$): 5.4 @ 0 °C
14.5 @ 25 °C
23.3 @ 40 °C
54.3 @ 60 °C
94.6 @ 100 °C
o) Partition coefficient: n-octanol/water: Undetermined.
p) Auto-ignition temperature: Undetermined.
q) Decomposition temperature: Undetermined.
r) Viscosity: Undetermined.

Chemical Formula: Na_3PO_4

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Product is stable under normal conditions of storage and handling.

Conditions to avoid

Store product in dry areas away from moisture. This product could be corrosive to aluminum surfaces due to high pH. When wet, mild steel and brass may be corroded.

Materials to avoid

Incompatible with strong mineral acids, aluminum and moisture.

Hazardous decomposition

Oxides of sodium and phosphorus may form when heated to decomposition

11. TOXICOLOGICAL INFORMATION

Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

Oral - rat LD_{50}:	4,150 mg/kg; slightly toxic
Dermal - rabbit LD_{50}:	>7,940 mg/kg; practically nontoxic
Eye Irritation - rabbit:	corrosive
Skin Irritation - rabbit:	2.2/8.0 (24-hr. exp.); slightly irritating

This product produced no mutagenic effects is standard assays using fruit flies.

12. ECOLOGICAL INFORMATION

Environmental toxicity

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

Invertebrate: 50-hr EC_{50} Daphnia magna:	177 mg/L; Practically Nontoxic
Warmwater fish: 96-hr LC_{50} Bluegill sunfish:	220 mg/L; Practically Nontoxic
Coldwater fish: 96-hr LC_{50} Rainbow trout:	120 mg/L; Practically Nontoxic

No definitive algal data was available for this material.

Environmental fate

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Road/Rail, Sea and Air

IMDG/UN	Not regulated.
ICAO/IATA passenger aircraft	UN 3077, Environmentally hazardous substance, solid, n.o.s. (contains sodium phosphate, tribasic), 9, PG III*
RID/ADR	Not regulated.
Canadian TDG	Not regulated.
US DOT	UN 3077, Environmentally hazardous substance, solid, n.o.s. (contains sodium phosphate, tribasic), 9, PG III*

* Applies only to a package containing a Reportable Quantity (RQ) of 5000 lbs or more.

15. REGULATORY INFORMATION

Chemical Inventory

USA TSCA:	Listed	Australia	Listed
Canada DSL:	Listed	Korea	Listed
EC:	Listed	Philippines	Listed
Japan	Listed	China	Listed

Other information

Germany: WGK = 1

WHMIS Classification: D2(B) – Materials Causing Other Toxic Effects

SARA Hazard Notification

Hazard Categories under Title III Rules (40 CFR 370):	Immediate
Section 302 Extremely Hazardous Substances:	Not Applicable
Section 313 Toxic Chemical(s):	Not Applicable

CERCLA Reportable Quantity: 5,000 lb. RQ of sodium phosphate, tribasic

Release of more than 5000 pounds of sodium phosphate, tribasic to the environment in a 24-hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contain all the information required by the Canadian Controlled Products Regulation.

16. OTHER INFORMATION

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	3	0	0	
Suggested HMIS Rating	3	0	0	E E = safety glasses, gloves, dust respirator

Reason for revision: Section 14. Supersedes MSDS dated: May 21, 2015

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Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, ICL Performance Products LP makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ICL Performance Products LP be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS

BRENNTAG

SAFETY DATA SHEET

1. Identification

Other means of identification None known.

Product identifier **AMMONIUM HYDROXIDE 19%**

Recommended use ALL PROPER AND LEGAL PURPOSES

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brenntag Southwest, Inc.

Address 610 Fisher Road
Longview, TX 75604

Telephone 903-759-7151

E-mail Not available.

Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Acute toxicity, oral	Category 4
Acute toxicity, inhalation	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information 19% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
AMMONIUM HYDROXIDE ((NH4)(OH))		1336-21-6	19
Other components below reportable levels			81

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.

Skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

The following are recommendations for Personnel Protective Equipment (PPE). The employer/user of this product must perform a Hazard Assessment of the workplace according to OSHA regulations 29 CFR 1910.132 to determine the appropriate PPE for use while performing any task involving potential exposure to this product.

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	CLEAR COLORLESS
Odor	AMMONIA
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-30 °F (-34.44 °C)
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	7.74 lbs/gal 0.93 g/ml
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	81 % estimated
Specific gravity	0.93

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Toxic if inhaled. Harmful if swallowed.

Product	Species	Test Results
AMMONIUM HYDROXIDE 19%		
Acute		
Inhalation		
Vapor		
ATEmix		3 mg/l
Oral		
ATEmix		1842 mg/kg

Components	Species	Test Results
AMMONIUM HYDROXIDE ((NH4)(OH)) (CAS 1336-21-6)		
Acute		
Oral		
LD50	Rat	350 mg/kg

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.
Skin sensitization	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
AMMONIUM HYDROXIDE ((NH4)(OH)) (CAS 1336-21-6)		
Aquatic		
Fish	LC50	Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN2672
UN proper shipping name	AMMONIA SOLUTION
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transportation information on packaging may be different from that listed.

IMDG

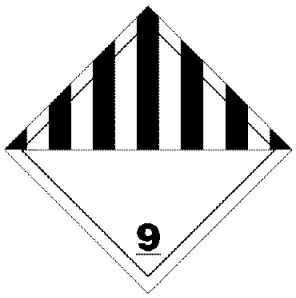
UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AMMONIUM HYDROXIDE ((NH4)(OH))), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-

Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

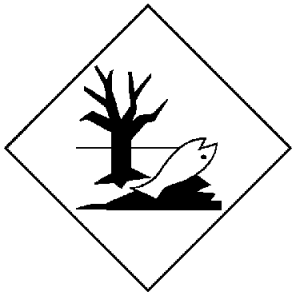
DOT



IMDG



Marine pollutant



General information	IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

AMMONIUM HYDROXIDE ((NH4)(OH)) (CAS 1336-21-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes

Classified hazard categories	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	10-10-2021
Revision date	06-12-2022
Version #	03
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 0 Instability: 0
Disclaimer	While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

COLUMBUS CHEMICAL INDUSTRIES INC.

Safety Data Sheet

Sulfuric Acid, 93% PC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sulfuric Acid, 93% PC

Synonyms/Generic Names: Battery Acid, Dihydrogen Sulfate, Oil of Vitriol

Product Number: 5665

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI. 53925

For More Information Call: 920-623-2140 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Target organ effect, Corrosive

Target Organs: Teeth, Lungs

Signal Words: Danger

Pictograms:



GHS Classification:

Skin corrosion	Category 1A
Serious eye damage	Category 1
Acute aquatic toxicity	Category 3

GHS Label Elements, including precautionary statements:

Hazard Statements:

H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.

Precautionary Statements:

P260	Do not breathe dusts or mists.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

Potential Health Effects

Eyes	Causes severe eye burns.
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Ingestion	May be harmful if swallowed.

NFPA Ratings

Health	3
Flammability	0
Reactivity	2
Specific hazard	W

HMIS Ratings

Health	3
Fire	0
Reactivity	2
Personal	J

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Sulfuric Acid	92-94	7664-93-9	231-939-5	H_2SO_4	98.08 g/mol
Water	Balance	7732-18-5	231-791-2	H_2O	18.00 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	**Do Not Induce Vomiting!** Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (sulfur oxides, hydrogen sulfide gas) under fire conditions. (See also Stability and Reactivity section).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Prevent spillage from entering drains. Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities
Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Sulfuric Acid	0.2 mg/m^3	TLV	ACGIH
	1 mg/m^3	PEL	OSHA
	1 mg/m^3	REL	NIOSH
	15 mg/m^3	IDLH	OSHA

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body suit.
Other	Not Available

Other Recommendations
Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid.
Odor	Odorless.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Density	1.8350 (water = 1)
Solubility (ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Moisture.
Incompatible Materials	Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorus (III) oxide, powdered metals.
Hazardous Decomposition Products	Sulfur oxides, hydrogen sulfide gas.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Sulfuric Acid

Skin	Not Available
Eyes	Not Available
Respiratory	LD50 – Rat – 510 mg/m^3 – 2h
Ingestion	LD50 – Rat – 2,140 mg/kg

Carcinogenicity

IARC	1: Carcinogenic to humans (Sulfuric Acid-Aerosol).
ACGIH	A2: Suspected human carcinogen (Sulfuric Acid-Aerosol).
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Burning, itching, redness, inflammation upon exposed tissue.
Eyes	Eye burns, watering eyes.
Respiratory	Burning, choking, coughing, shortness of breath.
Ingestion	Nausea, vomiting, diarrhea, burning, severe pain.

Chronic Toxicity	May cause bleeding of nose and gums, nasal and oral mucosal ulceration, conjunctivitis, yellowing of teeth and erosion of tooth enamel.
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sulfuric Acid

Aquatic Vertebrate	LC50 – Gambusia affinis – 42 mg/L – 96h
Aquatic Invertebrate	EC50 - Daphnia magna (Water flea) - 29 mg/l - 24 h
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Does not accumulate.
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1830, Sulfuric acid, 8, pg II
TDG	UN1830, SULFURIC ACID, 8, pg II
IMDG	UN1830, SULFURIC ACID, 8, pg II
Marine Pollutant	No
IATA/ICAO	UN1830, Sulfuric acid, 8, pg II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Listed: Sulfuric Acid (aerosol)
SARA 302	Listed: Sulfuric Acid (aerosol)
SARA 304	Listed: Sulfuric Acid (aerosol)
SARA 311	Acute Health Hazard, Chronic Health Hazard
SARA 312	Acute Health Hazard, Chronic Health Hazard
SARA 313	Listed: Sulfuric Acid (aerosol)
WHMIS Canada	Class E: Corrosive material. Class D-1A: Material causing other toxic effects (VERY TOXIC).

16. OTHER INFORMATION

Revision	Date
Revision 1	02/15/2013
Revision 2	01/22/2015

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SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

1. Identification

Product identifier: Hydrochloric Acid, 32-38%

Other means of identification

Synonyms: Muriatic Acid, Hydrogen Chloride, Aqueous
Product No.: 2062, 2515, 2612, 2626, 5367, 5587, 5800, 5814, 5861, 6900, 9165, 9385, 9529, 9530, 9535, 9538, 9539, 9544, 9551, 9553, 9595, 9625, H613, H616, H999, V078, 20620, 25496, 37825

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use.
Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Company Name:	Avantor Performance Materials, LLC
Address:	100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person:	Product Information Compliance
E-mail:	info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metal	Category 1

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3[1.]

Target Organs

1. Respiratory tract irritation.

Unknown toxicity - Health

Acute toxicity, oral	0 %
Acute toxicity, dermal	0 %
Acute toxicity, inhalation, vapor	30 %
Acute toxicity, inhalation, dust or mist	30 %

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement:
May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements

Prevention: Keep only in original packaging. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Absorb spillage to prevent material damage.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a corrosion-resistant container with a resistant inner liner.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Hydrochloric acid	7647-01-0	30.00 - 38.00%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion:	Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation:	Move to fresh air. Call a physician or poison control center immediately. Apply artificial respiration if victim is not breathing If breathing is difficult, give oxygen.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Symptoms:	Causes severe skin and eye burns. Harmful if swallowed.
Hazards:	None known.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards:	No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical:	Fire or excessive heat may produce hazardous decomposition products.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. Keep unauthorized personnel away. Evacuate area. Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up: Neutralize with lime or soda ash. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Inform authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Do not eat, drink or smoke when using the product. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Use caution when adding this material to water.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Store in a well-ventilated place. Store below 25°C. Unsuitable containers: metals.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
Hydrochloric acid	Ceiling	2 ppm		US. ACGIH Threshold Limit Values (2011)
	Ceil_Time	5 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceiling	5 ppm	7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	0.3 ppm	0.45 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	Ceiling	2 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	AN ESL	Health	7.9 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	ST ESL	Health	130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	ST ESL	Health	190 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	AN ESL	Health	5.3 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection:	Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection	
Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing and gloves.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Do not get this material in contact with skin.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Pungent
Odor threshold:	No data available.
pH:	0.1 (20 °C) (1 N aqueous solution)
Melting point/freezing point:	-35 °C
Initial boiling point and boiling range:	48 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	14.1 kPa
Vapor density:	No data available.
Density:	1.17 - 1.19 g/ml (20 °C)
Relative density:	1.18 (20 °C)
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	alcohol: Soluble
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity: Reacts violently with strong alkaline substances.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Avoid contact with strong reducing agents. Strong oxidizing agents. Contact with alkalis.

Incompatible Materials: Amines. Alkalies. Metals. Reducing agents. Oxidizing agents.

Hazardous Decomposition Products: Chlorine. Hydrogen chloride. By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Severely irritating to respiratory system.

Skin Contact: Causes severe skin burns.

Eye contact: Causes serious eye damage.

Ingestion: Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: ATEmix (Rat): 2,368.42 mg/kg

Dermal
Product: ATEmix (Rabbit) 3,813.16 mg/kg

Inhalation
Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: Causes severe skin burns.

Serious Eye Damage/Eye Irritation
Product: Causes serious eye damage.

Respiratory or Skin Sensitization
Product: Not a skin nor a respiratory sensitizer.

Carcinogenicity
Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No mutagenic components identified

In vivo
Product: No mutagenic components identified

Reproductive toxicity
Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product: Respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure
Product: None known.

Target Organs
Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

Aspiration Hazard
Product: Not classified

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Hydrochloric acid — LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 282 mg/l

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Hydrochloric acid — LC 50 (Green or European shore crab (Carcinus maenas), 48 h): 240 mg/l
LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 260 mg/l

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: Expected to be readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil: The product is water soluble and may spread in water systems.

Other adverse effects: Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1789
UN Proper Shipping Name:	Hydrochloric acid
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	II
Marine Pollutant:	No

Special precautions for user: Keep away from alkalis.

IMDG

UN Number: UN 1789
UN Proper Shipping Name: HYDROCHLORIC ACID
Transport Hazard Class(es)
Class: 8
Label(s): 8
EmS No.: F-A, S-B
Packing Group: II
Marine Pollutant: No
Special precautions for user: Keep away from alkalis.

IATA

UN Number: UN 1789
Proper Shipping Name: Hydrochloric acid
Transport Hazard Class(es):
Class: 8
Label(s): 8
Packing Group: II
Marine Pollutant: No
Special precautions for user: Keep away from alkalis.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Hydrochloric acid	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Corrosive to metal
Acute toxicity (any route of exposure)
Skin Corrosion or Irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance

Chemical Identity	Reportable quantity	Threshold Planning Quantity
Hydrochloric acid	5000 lbs.	500 lbs.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Hydrochloric acid	5000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Hydrochloric acid	500 lbs.

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Hydrochloric acid	10000 lbs.	25000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Chemical Identity	Reportable quantity
Hydrochloric acid	5000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

Chemical Identity	Reportable quantity
Hydrochloric acid	Reportable quantity: 5000 lbs.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity
Hydrochloric acid

US. Massachusetts RTK - Substance List

Chemical Identity
Hydrochloric acid

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Hydrochloric acid

US. Rhode Island RTK

Chemical Identity
Hydrochloric acid

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

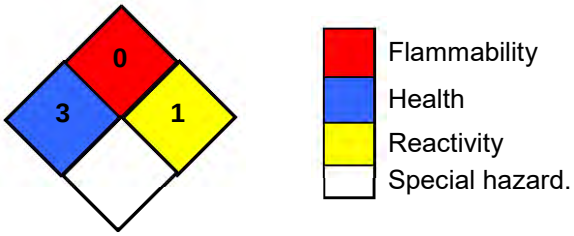
Not applicable

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	06-26-2020
Revision Information:	Not relevant.
Version #:	4.6
Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.

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MATERIAL SAFETY DATA SHEET

Identity (As used on label and list)	Note: Blank fields are not permitted
SODIUM HYPOCHLORITE 10%-13%	

Section I

Manufacturer's Name	Emergency Phone #
DXI INDUSTRIES, INC.	1-800-424-9300
Address	**Information Phone #**
P.O. BOX 24600	1-713-457-4888
City, State, Zip Code	**Date Prepared**
HOUSTON, TEXAS 77229	7-20-95

Section II - Hazardous Ingredients

Ingredient	Percent	CAS Number
SODIUM HYPOCHLORITE	15.00	10022-70-5
Common Names and Synonyms		
NIA		
PEL: NIA	**TLV: NIA**	
Other Limits Recommended: NIA		

Ingredient	Percent	CAS Number
SODIUM CHLORIDE	10.00	7647-14-5
Common Names and Synonyms		
NIA		
PEL: NIA	**TLV: NIA**	
Other Limits Recommended: NIA		

Section II continued on next page

Section II - Hazardous Ingredients (continued)

Ingredient	Percent	CAS Number
SODIUM HYDROXIDE	2.00	1310-73-2

Common Names and Synonyms
NIA

PEL: NIA	TLV: NIA

Other Limits Recommended: NIA

Ingredient	Percent	CAS Number
WATER	80.50	

Common Names and Synonyms
NIA

PEL: NIA	TLV: NIA

Other Limits Recommended: NIA

Section III - Physical/Chemical Characteristics

Boiling Point: DECOMPOSES	Specific Gravity: 1.20
Vapor Pressure: 17.5 MMHG	Melting Point: NIA
Vapor Density: NIA	Evaporation Rate: NIA

SOLUBILITY IN WATER
COMPLETELY

APPEARANCE AND ODOR
CLEAR, PALE YELLOW OR GREENISH LIQUID WITH A CHLORINE ODOR.

Section IV - Fire And Explosion Hazard Data

Flash Point: NONFLAMMABLE	Limits: Lel: NIA	Uel: NIA

Section IV continued on next page

Section IV - Fire And Explosion Hazard Data (continued)

EXTINGUISHING MEDIA
NIA

SPECIAL FIREFIGHTING PROCEDURES
USE EXTINGUISHING MEDIA THAT IS APPROPRIATE FOR SURROUNDING FIRE. USE WATER SPRAY FROM A SAFE DISTANCE TO COOL FIRE EXPOSED CONTAINERS, TO DILUTE LIQUID, AND CONTROL VAPORS. FIREFIGHTERS SHOULD WEAR FULL PROTECTION CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. PROTECTION IS NEEDED AGAINST CORROSIVE FUMES IF LIQUID IS RELEASED.
UNUSUAL FIRE AND EXPLOSION HAZARDS
THIS MATERIAL IS AN OXIDIZING AGENT, VIGOROUS REACTIONS CAN OCCUR WITH OXIDIZABLE MATERIALS IN A FIRE SITUATION. IT CAN BE DECOMPOSED BY HEAT. IF SAFE, REMOVE CONTAINERS FROM FIRE AREA TO PREVENT PRESSURE RUPTURE.

Section V - Reactivity Data

STABILITY: Stable
CONDITIONS TO AVOID FOR STABILITY
STABLE UNDER NORMAL OPERATING CONDITIONS.
INCOMPATABILITY (Materials To Avoid)
ANY ACIDIC MATERIAL, AMMONIA, UREA, OXIDIZABLE MATERIALS, AND METALS, SUCH AS NICKEL, COPPER, TIN, ALUMINUM, AND IRON.
HAZARDOUS DECOMPOSITION PRODUCTS
CHLORINE GAS RATE OF DECOMPOSITION INCREASES WITH THE CONCENTRATION WITH TEMPERATURES ABOVE 85 F.
HAZARDOUS POLYMERIZATION: Will Not Occur
POLYMERIZING CONDITIONS TO AVOID
NIA

Section VI - Health Hazard Data

CARCINOGENICITY	NTP?	IARC?	OSHA REGULATED
NO	NO	NO	NO

Effects and Hazards of Overexposure (Acute and Chronic)
EFFECTS AND HAZARDS OF EYE CONTACT
MAY CAUSE SEVERE PAIN, BLURRED VISION, TEARING AND SWELLING. CONCENTRATED SOLUTIONS MAY CAUSE BURNING.
EFFECTS AND HAZARDS OF SKIN CONTACT
MAY CAUSE MODERATE SKIN IRRITATION. CONTACT WITH

CONCENTRATED SOLUTIONS MAY BLEACH THE SKIN AND CAUSE REDNESS, PAIN, BLISTERING, ITCHY ECZEMA AND POSSIBLE CHEMICAL BURNS.
EFFECTS AND HAZARDS OF INHALATION (Breathing)
VAPORS MAY CAUSE SLIGHT TO SEVERE IRRITATION OF THE RESPIRATORY TRACT. HIGH CONCENTRATIONS MAY CAUSE SORE THROAT, BLISTERING, COUGHING, DELAYED PULMONARY EDEMA (SWELLING OF LUNG TISSUE) AND SHORTNESS OF BREATH.
EFFECTS AND HAZARDS OF INGESTION (Swallowing)
MAY CAUSE PAIN AND INFLAMMATION OF THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH. CAN CAUSE EROSION OF MUCOUS MEMBRANES, ESPECIALLY IN THE STOMACH.

Emergency And First Aid Procedures

TREATMENT FOR EYE CONTACT
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
TREATMENT FOR SKIN CONTACT
IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.
TREATMENT FOR INHALATION (Breathing)
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Section VI continued on next page

Section VI - Health Hazard Data (continued)

TREATMENT FOR INGESTION (Swallowing)
DO NOT INDUCE VOMITING! RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

Section VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
CONTAIN MATERIAL. PLACE COLLECTED MATERIAL IN A DISPOSAL CONTAINER. PREVENT LIQUID FROM ENTERING SEWERS OR

WATER WAYS. DO NOT USE COMBUSTIBLE ABSORBENTS. WHEN NECESSARY, HYPOCHLORITE SOLUTIONS CAN BE NEUTRALIZED WITH WEAK REDUCING AGENTS. CLEAN-UP PERSONNEL SHOULD USE PROTECTIVE EQUIPMENT TO PREVENT CONTACT.
WASTE DISPOSAL METHOD DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING KEEP CONTAINER(S) TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A COOL (BELOW 85 F), DRY, WELL VENTILATED AREA AWAY FROM DIRECT SUNLIGHT, HEAT, AND INCOMPATIBLE MATERIALS. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. THIS PRODUCT DEGRADES WITH AGE. USE A CHLORINE TEST KIT AND INCREASE DOSAGE AS NECESSARY TO OBTAIN THE REQUIRED LEVEL OF AVAILABLE CHLORINE.
OTHER PRECAUTIONS NIA

Section VIII - Control Measures

RESPIRATORY PROTECTION USE NIOSH APPROVED RESPIRATOR PROTECTION. FOR CANISTER TYPE RESPIRATORS, USE CHLORINE FILTERS. IN CASE OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS FOR RESCUE.

Section VIII continued on next page

Section VIII - Control Measures (continued)

Ventilation

LOCAL EXHAUST VENTILATION RECOMMENDED
SPECIAL VENTILATION NONE
MECHANICAL (General) VENTILATION RECOMMENDED
OTHER VENTILATION NONE
PROTECTIVE GLOVES WEAR CHEMICAL RESISTANT GLOVES (PVC) AND CLOTHING SUCH AS COVERALLS (SLICKER SUITS), BOOTS, ETC. TO AVOID SKIN

CONTACT.
EYE PROTECTION
CHEMICAL GOGGLES AND/OR FULL FACE SHIELD.
OTHER PROTECTIVE EQUIPMENT
WEAR CHEMICAL RESISTANT GLOVES (PVC) AND CLOTHING SUCH AS COVERALLS (SLICKER SUITS), BOOTS, ETC. TO AVOID SKIN CONTACT.
WORK AND HYGIENIC PRACTICES
USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SAFETY DATA SHEET

Issuing Date 13 April 2015 **Revision Date** 13 April 2015 **Revision Number 0**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **Sodium Bromide Solution**

Other means of identification

Chemical Family Inorganic Salt

Recommended use of the chemical and restrictions on use

Recommended Use Oilfield additive

Uses advised against No information available

Supplier's details

Manufacturer Address
TETRA Technologies, Inc.
24955 Interstate 45 North
The Woodlands, TX 77380
TEL: 281-367-1983 (Non-Emergency Number)

Emergency telephone number

Emergency Telephone Number CHEMTREC: 1-800-424-9300 for US/ 703-527-3887 outside US

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Not classified

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **None**

Hazard Statements
• None

The product contains no substances which at their given concentration are considered to be hazardous to health.

Precautionary Statements

Prevention
• None

General Advice
• None

Storage
• None

Disposal
• None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information
May cause irritation to skin, eyes and respiratory system. Do not ingest.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium Bromide	7647-15-6	1 - 48

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Immediately flush eyes thoroughly with large amounts of water for 15-20 minutes. Hold eyelids open during flushing. Get medical attention immediately.

Skin Contact Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent, and large amounts of water. In cases of burns, cover lightly with sterile, dry dressing. Get medical attention immediately.

Inhalation Remove from exposure area to fresh air. Obtain medical attention immediately.

Ingestion Do not attempt to give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Negligible fire Hazard. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical
None

Explosion Data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Use personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Methods for Containment For small spills, take up with sand or other absorbent material and place into containers for later reclamation or disposal. For larger spills, dike far ahead of spill for later disposal.

Methods for Cleaning Up Take up and collect in suitable container for disposal. Use personal protective equipment.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep in a dry place.

Incompatible Products Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
None established.

Appropriate engineering controls

Engineering Measures Provide local exhaust ventilations system. When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with non-flexible side shields or chemical goggles

Skin and Body Protection	Wear appropriate protective, impervious clothing.
Respiratory Protection	A respirator is not indicated under normal operating conditions. Use of respirator should be based on contamination levels in the workplace.
Hygiene Measures	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Clear
Odor	Odorless	**Odor Threshold**	No information available

Property	**Values**
pH	5.5 – 8.5 @ 5% solution
Melting Point/Range	No data available
Boiling Point/Boiling Range	No data available
Flash Point	Not applicable
Molecular Weight	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available
lower flammability limit	No data available
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity	1.01 – 1.53 @ 68°F (20°C)
Water Solubility	Completely
Solubility in other solvents	Slightly soluble in alcohol
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	Not applicable

Flammable Properties	Not flammable
Explosive Properties	No data available
Oxidizing Properties	No data available

Other information

VOC Content (%)	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal conditions.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May generate bromine gas in the presence of strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Vapor inhalation may cause irritation to mucous membranes and respiratory system. Additional effects may include coughing and shortness of breath.

Eye Contact May cause irritation of eyes with redness and/or pain and superficial injury. Additional effects may include tearing and eye discharge.

Skin Contact Single, short exposure not likely to cause significant skin irritation. However, direct contact with solution may cause irritation.

Ingestion Ingestion may cause vomiting, digestive disorders, high blood pressure, headache, kidney damage, paralysis and coma.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Bromide	= 3500 mg/kg, (rat)	>2000 mg/kg (rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Eye, mucous membrane and skin irritant.

Delayed and immediate effects and also chronic effects from short and long term exposure

Eye damage/irritation May be irritating to eyes.
Sensitization No information available.
Mutagenic Effects No information available.
Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic Toxicity No information available.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. Avoid release to the environment.

Persistence and Degradability Product is not biodegradable.

Bioaccumulation Does not bioaccumulate.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging No information available.

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG Not regulated

ICAO / IATA Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA **Health Hazard** 1 **Flammability** 0 **Instability** 0 **Physical and Chemical Hazards** -

Prepared By	TETRA Technologies, Inc. sds@tetratec.com
Issuing Date	13 April 2015
Revision Date	13 April 2015
Revision Note	Initial GHS format

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

1. Product and Company Identification

Product Code: D281CPS
Product Name: Inhibitor/Dispersant
Trade Name: D-281CPS

Company Name: GC3 Specialty Chemicals, Inc.
733 Heights Blvd.
Houston, TX 77007

Phone Number: (713)802-1761

Web site address: www.gc3.com
Emergency Contact: CHEMTREC: 800-424-9300
Information: 713-802-1761

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 1
Corrosive To Metals, Category 1
Skin Corrosion/Irritation, Category 1A



Danger

GHS Hazard Phrases:
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.

GHS Precaution Phrases:
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment see First Aid Measures on Safety Data Sheet.
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.

GHS Storage and Disposal Phrases:
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects (Acute and Chronic):
Hazards not otherwise classified (HNOC) or not covered by GHS. None.

Prolonged or repeated skin contact may cause dermatitis.

Chronic: Effects may be delayed.

Inhalation:
Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.

Skin Contact:	Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
Eye Contact:	Causes eye burns. May cause chemical conjunctivitis and corneal damage.
Ingestion:	May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May cause systemic effects.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
9003-01-4	Polyacrylic acid	5.0 -20.0 %
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	5.0 -20.0 %
26099-09-2	Polymaleic acid	1.0 -10.0 %
1310-73-2	Sodium hydroxide	0.0 -5.0 %

4. First Aid Measures

Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
In Case of Inhalation:	If breathed in, move person into fresh air. Consult a physician. If inhaled, remove to fresh air. If breathing is difficult, give oxygen.
In Case of Skin Contact:	Wash off with soap and plenty of water. Consult a physician. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
In Case of Eye Contact:	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.
In Case of Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid immediately. If victim is fully conscious, give a cupful of water.
Signs and Symptoms Of Exposure:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary. Further information. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas.
Flammable Properties and Hazards:	No data available.

Hazardous Combustion Products:	oxides of phosphorus, Carbon oxides.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Steps To Be Taken In Case Material Is Released Or Spilled:	Sweep up and shovel. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water on spilled substances or inside containers.

7. Handling and Storage

Precautions To Be Taken in Handling:	Avoid formation of dust and aerosols. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.
Precautions To Be Taken in Storing:	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Corrosives area.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
9003-01-4	Polyacrylic acid	No data.	No data.	No data.
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	No data.	No data.	No data.
26099-09-2	Polymaleic acid	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

Respiratory Equipment (Specify Type):	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye Protection:	Safety glasses with side-shields conforming to EN166. Wear chemical splash goggles.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing:	Impervious clothing. Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [X] Solid
Appearance and Odor:	Clear straw to amber liquid. characteristic odor.
pH:	2 - 4
Freezing Point:	~ 4.00 C (39.2 F)
Boiling Point:	~ 100.00 C (212.0 F)
Flash Pt:	No data.
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	1.12 - 1.3
Solubility in Water:	soluble
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	This material is considered stable under normal temperatures and pressures.
Incompatibility - Materials To Avoid:	Strong oxidizing agents. Metals. Aluminum, Zinc, flammable liquids, organic halogens.
Hazardous Decomposition or Byproducts:	Other decomposition products: No data available. In the event of fire: see section 5. Toxic fumes of sodium oxide.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information: Reproductive toxicity.
Aspiration hazard: Epidemiology: No information found.
Teratogenicity: No information available. Reproductive Effects: See actual entry in RTECS for complete information.
Neurotoxicity:
CAS# 26099-09-2: Acute toxicity, LD50, Oral, Rat, 15000. MG/KG.

Irritation or Corrosion: Skin corrosion/irritation. No data available.
Serious eye damage/eye irritation:

Sensitization: No data available.

Chronic Toxicological Effects: Specific target organ toxicity - single exposure:
Specific target organ toxicity - repeated exposure:

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
9003-01-4	Polyacrylic acid	n.a.	3	n.a.	n.a.
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	n.a.	n.a.	n.a.	n.a.
26099-09-2	Polymaleic acid	n.a.	n.a.	n.a.	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: No data available.
CAS# 26099-09-2: LC50, Bluegill (Lepomis macrochirus), > 2500. MG/KG.
Effective concentration to 50% of test organisms., Water Flea (Daphnia magna), > 1000. MG/KG.
LC50, Brown Shrimp (Penaeus aztecus), > 580.0 MG/KG.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. Disposal Considerations

Waste Disposal Method: Product.
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (2-Phosphonobutane-1,2,4-tricarboxylic acid)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN3265 **Packing Group:** III



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Corrosive liquid, acidic, organic, n.o.s.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Corrosive liquid, acidic, organic, n.o.s.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Corrosive liquid, acidic, organic, n.o.s.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Corrosive liquid, acidic, organic, n.o.s.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
9003-01-4	Polyacrylic acid	No	No	No
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	No	No	No
26099-09-2	Polymaleic acid	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

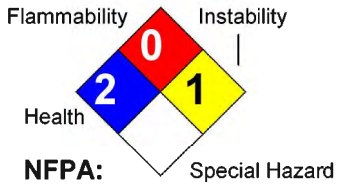
This material meets the EPA	[X] Yes [ ] No	Acute (immediate) Health Hazard
'Hazard Categories' defined	[X] Yes [ ] No	Chronic (delayed) Health Hazard
for SARA Title III Sections	[ ] Yes [X] No	Fire Hazard
311/312 as indicated:	[X] Yes [ ] No	Sudden Release of Pressure Hazard
	[ ] Yes [X] No	Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
9003-01-4	Polyacrylic acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
37971-36-1	2-Phosphonobutane-1,2,4-tricarboxylic acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
26099-09-2	Polymaleic acid	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
1310-73-2	Sodium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

16. Other Information

Revision Date: 04/20/2015

Hazard Rating System:



Additional Information About This Product: No data available.

Company Policy or Disclaimer: The information presented herein is based on the content of a Safety Data Sheet provided by one or more manufacturers, raw material suppliers, or other responsible parties. Although the information provided herein is an accurate presentation of the original Safety Data Sheet safety information, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The informaton in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantees of the properties of the product.

ATTACHMENT – ANALYTICAL LABORATORY INFORMATION

Attachment: Worksheet 2.0 Priority Pollutant Contract Lab Information
(List of pollutants analyzed for each laboratory firm and contact information)

BOD
CBOD
Chemical Oxygen Demand
Total Organic Carbon
Dissolved Oxygen
Ammonia Nitrate
Total Suspended Solids
Nitrate Nitrogen
Total Organic Nitrogen
Total Phosphorus
Oil and Grease
Total Residual Chlorine
Total Dissolved Solids
Sulfate
Chloride
Fluoride
Total Alkalinity
Temperature
pH
Aluminum, total
Antimony, total
Arsenic, total
Barium, total
Beryllium, total
Cadmium, total
Chromium, total
Chromium, hexavalent
Chromium, trivalent
Copper, total
Cyanide
Lead, total
Mercury, total
Nickel, total
Selenium, total
Silver, total
Thallium, total
Zinc, total
Acrylonitrile
Anthracene
Benzene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
Bis(2-chloroethyl)ether
Bis(2-ethylhexyl)phthalate

Bromodichloromethane [Dichlorobromomethane]
Bromoform
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane [Dibromochloromethane]
Chloroform
Chrysene
m-Cresol [3-Methylphenol]
o-Cresol [2-Methylphenol]
p-Cresol [4-Methylphenol]
1,2-Dibromoethane
m-Dichlorobenzene [1,3-Dichlorobenzene]
o-Dichlorobenzene [1,2-Dichlorobenzene]
p-Dichlorobenzene [1,4-Dichlorobenzene]
3,3'-Dichlorobenzidine
1,2-Dichloroethane
1,1-Dichloroethene [1,1-Dichloroethylene]
Dichloromethane [Methylene chloride]
1,2-Dichloropropane
1,3-Dichloropropene [1,3-Dichloropropylene]
2,4-Dimethylphenol
Di-n-Butyl phthalate
Ethylbenzene
Fluoride
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Methyl ethyl ketone
Nitrobenzene
N-Nitrosodiethylamine
N-Nitroso-di-n-butylamine
Nonylphenol
Pentachlorobenzene
Pentachlorophenol
Phenanthrene
Polychlorinated biphenyls (PCBs) (**)
Pyridine
1,2,4,5-Tetrachlorobenzene
1,1,2,2-Tetrachloroethane
Tetrachloroethene [Tetrachloroethylene]
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene [Trichloroethylene]
2,4,5-Trichlorophenol
TTHM (Total trihalomethanes)
Vinyl chloride

Bromide
Color (PCU)
Nitrate-Nitrite (as N)
Sulfide (as S)
Sulfite (as SO3)
Surfactants (MBAS)
Boron, total
Cobalt, total
Iron, total
Magnesium, total
Manganese, total
Molybdenum, total
Tin, total
Titanium, total
Acrolein
Acrylonitrile
Benzene
Bromoform
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethylvinyl ether
Chloroform
Dichlorobromomethane [Bromodichloromethane]
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene [1,1-Dichloroethene]
1,2-Dichloropropane
1,3-Dichloropropylene [1,3-Dichloropropene]
Ethylbenzene
Methyl bromide [Bromomethane]
Methyl chloride [Chloromethane]
Methylene chloride [Dichloromethane]
1,1,2,2-Tetrachloroethane
Tetrachloroethylene [Tetrachloroethene]
Toluene
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene [Trichloroethene]
Vinyl chloride
2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol

4-Nitrophenol
p-Chloro-m-cresol
Pentachlorophenol
Phenol
2,4,6-Trichlorophenol

Contract Laboratory Info:

San Antonio Testing Laboratory
1610 S Laredo St.
San Antonio, TX 78207-7029
210-229-9920

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

Albion Environmental
4505 Boyett Street
Bryan, TX 77801-4614
979-268-2677

SAN ANTONIO TESTING LABORATORY

December 20, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407261
RE: VHB Priority Pollutants
Project Number: 001 (Week 1)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/17/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
12/20/24 10:21
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

SAMPLE SUMMARY

Total Samples received in this work order: 1

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB 001	2407261-01	Liquid	Grab	07/17/24 09:40	07/17/24 11:27

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
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Additional Notes:
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Report No. 2407261

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407261-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:40**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	19.1	mg/L	0.10	SM 5310C	B430154	07/20/24 01:05	SM5310C	DD	
Total Alkalinity *	396	mg/L as CaCO3	20.0	SM2320B	B431198	07/29/24 17:00	SM2320B	JA	
Ammonia-Nitrogen *	<1.00	mg/L	1.00	SM4500NH3B	B430191	07/23/24 12:30	SM4500NH3C	JA	
Total Kjeldahl Nitrogen *	5.04	mg/L	1.00	EPA 351.3	B430316	07/25/24 11:06	EPA 351.3	DD	
Total Organic Nitrogen	5.04	mg/L	1.00	[CALC]	[CALC]	07/25/24 11:06	CALC	DD	
Sulfide *	<100	ug/L	100	EPA 376.2	B431197	07/29/24 15:35	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B430311	07/18/24 15:30	SM5540C	SG	
Total Dissolved Solids *	1390	mg/L	5.00	SM2540C	B430269	07/23/24 17:04	SM2540C	DD	
Total Suspended Solids *	10.7	mg/L	7.14	SM2540D	B430227	07/23/24 18:05	SM2540D	DD	
COD *	61.3	mg/L	5.00	H8000	B431204	07/29/24 16:36	H8000	DD	
pH *	9.15	pH Units	0.01	SM4500HB	B429233	07/18/24 09:04	SM4500HB	JA	H
pH measured @Temperature >>	67.5	°F	0.100	SM4500HB	B429233	07/18/24 09:04	SM2550B	JA	H
BOD-5 *	4.80	mg/L	2.00	SM5210B	B430178	07/18/24 15:06	SM5210B	DD	
CBOD *	3.36	mg/L	2.00	SM5210B	B430179	07/22/24 15:05	SM5210B	DD	Za
Dissolved Oxygen *	10.0	mg/L	2.00	EPA 360.1	B429230	07/17/24 17:00	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B431178	07/26/24 17:40	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B431211	07/18/24 17:45	EPA 377.1	SG	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B429266	07/18/24 15:25	I-1230-85	SG	
Residual Chlorine *	0.03	mg/L	0.01	SM4500ClG	B429263	07/19/24 14:35	SM4500ClG	JA	
Total Phosphorous *	0.49	mg/L	0.05	EPA 365.3	B430188	07/22/24 14:10	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1170	ug/L	500	EPA 300.0	B430246	07/18/24 03:39	EPA 300.0	JA	Z
Chloride *	637	mg/L	5.00	EPA 300.0	B430246	07/18/24 04:50	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B430246	07/18/24 03:39	EPA 300.0	JA	
Bromide *	9130	ug/L	400	EPA 300.0	B430246	07/18/24 04:50	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B430246	07/18/24 03:39	EPA 300.0	JA	
Sulfate *	152	mg/L	5.00	EPA 300.0	B430246	07/18/24 04:50	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	07/18/24 03:39	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
12/20/24 10:21
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407261-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:40**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									
Aluminum *	32	ug/L	2	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Barium *	53	ug/L	3	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Boron *	987	ug/L	20	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Cobalt *	0.4	ug/L	0.3	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Copper *	2	ug/L	2	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Iron *	101	ug/L	7	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Magnesium *	19600	ug/L	20	EPA 200.8	B430276	07/26/24 18:14	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Molybdenum *	5	ug/L	1	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Nickel *	6	ug/L	2	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Zinc *	9	ug/L	5	EPA 200.8	B430276	07/26/24 17:24	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	07/26/24 17:24	CALC	SG	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
12/20/24 10:21
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407261-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:40**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:11	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*51 %*	*18.3-110*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*50 %*	*15.6-80.4*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*33 %*	*2.8-70.6*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*46 %*	*8.98-84*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*27 %*	*1.11-63.5*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*68 %*	*8.46-114*		*EPA 3510C*	*B430203*	*07/25/24 22:11*	*EPA 625.1*	*ME*	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
12/20/24 10:21
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407261-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:40**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B430202	07/25/24 22:11	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*49 %*		*5-89.9*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*50 %*		*27-111*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*23 %*		*5-64.3*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*28 %*		*5-64.3*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*63 %*		*5-114*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*38 %*		*22-117*	*ASTM D7065-11*	*B430202*	*07/25/24 22:11*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:04	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*65 %*		*15.3-112*	*EPA 608.3*	*B430242*	*07/25/24 16:04*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*51 %*		*10.2-92.4*	*EPA 608.3*	*B430242*	*07/25/24 16:04*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
1,3-Dichloropropylene [1,3-Dichloropr	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Acrolein *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Benzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Bromoform *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	

CPS Energy - Environmental Dept.
P.O. Box 1771
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

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07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407261-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:40**

Analyte	Result	Units	PQL		Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS										
Carbon Tetrachloride *	<2	ug/L	2		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Chlorobenzene *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Chloroethane *	<50	ug/L	50		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Chloroform *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Methyl Chloride *	<50	ug/L	50		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Ethylbenzene *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	CL
Dichloromethane [Methylene Chloride]	<20	ug/L	20		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Toluene *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
trans-1,2-Dichloroethylene *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Vinyl chloride [Chloroethene] *	<10	ug/L	10		EPA 624.1	B429241	07/18/24 18:27	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*100 %*		*80-106*		*EPA 624.1*	*B429241*	*07/18/24 18:27*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*97 %*		*83-118*		*EPA 624.1*	*B429241*	*07/18/24 18:27*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*112 %*		*91-109*	*SurrH*	*EPA 624.1*	*B429241*	*07/18/24 18:27*	*EPA 624.1*	*TB*	
Total Trihalomethanes by GC/MS										
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50		EPA 5030B	B429242	07/18/24 18:27	EPA 624.1	TB	
Bromoform *	<2.50	ug/L	2.50		EPA 5030B	B429242	07/18/24 18:27	EPA 624.1	TB	
Chloroform *	<2.50	ug/L	2.50		EPA 5030B	B429242	07/18/24 18:27	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50		EPA 5030B	B429242	07/18/24 18:27	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0		EPA 5030B	B429242	07/18/24 18:27	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0		[CALC]	[CALC]	07/18/24 18:27	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*100 %*		*65.7-120*		*EPA 5030B*	*B429242*	*07/18/24 18:27*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*97 %*		*81.2-126*		*EPA 5030B*	*B429242*	*07/18/24 18:27*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*112 %*		*87.4-109*	*SurrH*	*EPA 5030B*	*B429242*	*07/18/24 18:27*	*EPA 624.1*	*TB*	

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12/20/24 10:21
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07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429230 - EPA 360.1										
Duplicate (B429230-DUP1)		**Source: 2407261-01**		Prepared: 07/17/24 17:00		Analyzed: 07/17/24 17:01				
Dissolved Oxygen	9.90	2.00	mg/L		10.0			1	20	H, UA
Batch B429233 - SM4500HB										
LCS (B429233-BS1)				Prepared: 07/18/24 09:00		Analyzed: 07/18/24 09:00				
pH	7.06	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	19.7	0.100	°F				0-200			
Duplicate (B429233-DUP1)		**Source: 2407287-01**		Prepared: 07/18/24 09:00		Analyzed: 07/18/24 09:07				
pH	7.86	0.01	pH Units		7.84			0.3	20	H
pH measured @Temperature >>	19.6	0.100	°F		19.6			0	30	H
Batch B429263 - SM4500ClG										
Blank (B429263-BLK1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B429263-BS1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	0.263	0.01	mg/L	0.250		105	80-120			
LCS Dup (B429263-BSD1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	0.266	0.01	mg/L	0.250		106	80-120	1	20	
Duplicate (B429263-DUP1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.0230	0.01	mg/L		0.0210			9	20	
Matrix Spike (B429263-MS1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.123	0.01	mg/L	0.250	0.0210	41	80-120			M
Matrix Spike Dup (B429263-MSD1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.116	0.01	mg/L	0.250	0.0210	38	80-120	6	20	M
Batch B429266 - I-1230-85										
Blank (B429266-BLK1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				
Hexavalent Chromium	<3	3	ug/L							
LCS (B429266-BS1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				
Hexavalent Chromium	429	3	ug/L	400		107	90-110			
LCS Dup (B429266-BSD1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429266 - I-1230-85										
Hexavalent Chromium	417	3	ug/L	400		104	90-110	3	20	
Duplicate (B429266-DUP1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	<3	3	ug/L		<3				20	
Matrix Spike (B429266-MS1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	430	3	ug/L	400	<3	108	80-120			
Matrix Spike Dup (B429266-MSD1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	421	3	ug/L	400	<3	105	80-120	2	20	
Batch B430154 - SM 5310C										
Blank (B430154-BLK1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 18:55				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B430154-BS1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 19:22				
Total Organic Carbon	4.28	0.10	mg/L	5.00		86	80-120			
LCS Dup (B430154-BSD1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 19:48				
Total Organic Carbon	4.12	0.10	mg/L	5.00		82	80-120	4	20	
Duplicate (B430154-DUP1)		**Source: 2407195-01**		Prepared: 07/19/24 12:00		Analyzed: 07/19/24 20:50				
Total Organic Carbon	13.0	0.10	mg/L		12.8			2	20	
Matrix Spike (B430154-MS1)		**Source: 2407195-01**		Prepared: 07/19/24 12:00		Analyzed: 07/20/24 00:34				
Total Organic Carbon	13.9	0.10	mg/L	5.00	12.8	22	70-130			M
Batch B430178 - SM5210B										
Blank (B430178-BLK1)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:00				
BOD-5	<2.00	2.00	mg/L							
LCS (B430178-BS1)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:01				
BOD-5	170	2.00	mg/L	200		85	80-120			
LCS (B430178-BS2)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:02				
BOD-5	185	2.00	mg/L	200		92	80-120			
LCS (B430178-BS3)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:03				
BOD-5	185	2.00	mg/L	200		92	80-120			
Duplicate (B430178-DUP1)		**Source: 2407238-01**		Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:05				

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Report No. 2407261

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430178 - SM5210B										
BOD-5	38.6	2.00	mg/L		36.5			6	20	
Batch B430179 - SM5210B										
Blank (B430179-BLK1)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:00						
CBOD	<2.00	2.00	mg/L							Za
LCS (B430179-BS1)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:02						
CBOD	170	2.00	mg/L	200		85	80-120			Za
LCS (B430179-BS2)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:03						
CBOD	185	2.00	mg/L	200		92	80-120			Za
LCS (B430179-BS3)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:04						
CBOD	185	2.00	mg/L	200		92	80-120			Za
Batch B430188 - EPA 365.3										
Blank (B430188-BLK1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B430188-BS1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	0.454	0.05	mg/L	0.500		91	80-120			
LCS Dup (B430188-BSD1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	0.456	0.05	mg/L	0.500		91	80-120	0.4	20	
Duplicate (B430188-DUP1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.481	0.05	mg/L		0.493			2	20	
Matrix Spike (B430188-MS1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.682	0.05	mg/L	0.500	0.493	38	80-120			M
Matrix Spike Dup (B430188-MSD1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.684	0.05	mg/L	0.500	0.493	38	80-120	0.3	20	M
Batch B430191 - SM4500NH3B										
Blank (B430191-BLK1)				Prepared: 07/23/24 10:00 Analyzed: 07/23/24 12:05						
Ammonia-Nitrogen	<1.00	1.00	mg/L							
LCS (B430191-BS1)				Prepared: 07/23/24 10:00 Analyzed: 07/23/24 12:10						

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Report No. 2407261

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430191 - SM4500NH3B									
LCS (B430191-BS1)				Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:10			
Ammonia-Nitrogen	18.5	1.00	mg/L	20.0		92	80-120		
LCS Dup (B430191-BSD1)				Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:15			
Ammonia-Nitrogen	18.5	1.00	mg/L	20.0		92	80-120	0	20
Duplicate (B430191-DUP1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:40			
Ammonia-Nitrogen	<1.00	1.00	mg/L		<1.00				20
Matrix Spike (B430191-MS1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:45			
Ammonia-Nitrogen	19.6	1.00	mg/L	20.0	<1.00	98	80-120		
Matrix Spike Dup (B430191-MSD1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:50			
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0	<1.00	101	80-120	3	200
Batch B430227 - SM2540D									
Blank (B430227-BLK1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:01			
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B430227-BS1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:02			
Total Suspended Solids	9.87	2.50	mg/L	10.0		99	80-120		
LCS Dup (B430227-BSD1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:03			
Total Suspended Solids	10.2	2.50	mg/L	10.0		102	80-120	4	20
Duplicate (B430227-DUP1)		**Source: 2407261-01**		Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:04			
Total Suspended Solids	10.9	7.14	mg/L		10.7			2	20
Batch B430269 - SM2540C									
Blank (B430269-BLK1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B430269-BS1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	100	2.50	mg/L	100		100	80-120		
LCS Dup (B430269-BSD1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	103	2.50	mg/L	100		103	80-120	3	20
Duplicate (B430269-DUP1)		**Source: 2407262-01**		Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430269 - SM2540C									
Duplicate (B430269-DUP1)		**Source: 2407262-01**		Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	1520	5.00	mg/L		1560			2	20
Batch B430311 - SM5540 C									
Blank (B430311-BLK1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B430311-BS1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120		
LCS Dup (B430311-BSD1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120	0	20
Duplicate (B430311-DUP1)		**Source: 2407261-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20
Batch B430316 - EPA 351.3									
Blank (B430316-BLK1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:00			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B430316-BS1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:01			
Total Kjeldahl Nitrogen	16.2	1.00	mg/L	20.0		81	80-120		
LCS Dup (B430316-BSD1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:02			
Total Kjeldahl Nitrogen	16.2	1.00	mg/L	20.0		81	80-120	0	20
Duplicate (B430316-DUP1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:03			
Total Kjeldahl Nitrogen	4.48	1.00	mg/L		5.04			12	20
Matrix Spike (B430316-MS1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:04			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	5.04	81	80-120		
Matrix Spike Dup (B430316-MSD1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:05			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	5.04	81	80-120	0	20
Batch B431178 - EPA 1664A									

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Report No. 2407261

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431178 - EPA 1664A									
Blank (B431178-BLK1)				Prepared: 07/26/24 10:00 Analyzed: 07/26/24 17:30					
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B431178-BS1)				Prepared: 07/26/24 10:00 Analyzed: 07/26/24 17:31					
Oil & Grease (HEM)	33.6	4.75	mg/L	40.0		84	78-114		
LCS Dup (B431178-BSD1)				Prepared: 07/26/24 10:00 Analyzed: 07/26/24 17:32					
Oil & Grease (HEM)	33.7	4.75	mg/L	40.0		84	78-114	0.3	18
Matrix Spike (B431178-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 10:00 Analyzed: 07/26/24 17:41					
Oil & Grease (HEM)	41.1	4.75	mg/L	40.0	<4.75	103	78-114		
Batch B431197 - EPA 376.2									
Blank (B431197-BLK1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	<100	100	ug/L						
LCS (B431197-BS1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	91.0	100	ug/L	100		91	80-120		
LCS Dup (B431197-BSD1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	97.0	100	ug/L	100		97	80-120	6	20
Duplicate (B431197-DUP1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B431197-MS1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	100	100	ug/L	100	<100	100	70-130		
Matrix Spike Dup (B431197-MSD1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	93.0	100	ug/L	100	<100	93	70-130	7	30
Batch B431198 - SM2320B									
Blank (B431198-BLK1)				Prepared: 07/26/24 15:00 Analyzed: 07/29/24 15:00					
Total Alkalinity	<20.0	20.0	mg/L as CaCO3						
LCS (B431198-BS1)				Prepared: 07/26/24 15:00 Analyzed: 07/29/24 15:05					
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120		
LCS Dup (B431198-BSD1)				Prepared: 07/26/24 15:00 Analyzed: 07/29/24 15:10					

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Additional Notes:
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Report No. 2407261

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431198 - SM2320B									
LCS Dup (B431198-BSD1)				Prepared: 07/26/24 15:00		Analyzed: 07/29/24 15:10			
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120	4	20
Duplicate (B431198-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 15:00		Analyzed: 07/29/24 17:20			
Total Alkalinity	380	20.0	mg/L as CaCO3		396			4	20
Batch B431204 - H8000									
Blank (B431204-BLK1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	<5.00	5.00	mg/L						
LCS (B431204-BS1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	53.9	5.00	mg/L	50.0		108	80-120		
LCS Dup (B431204-BSD1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	47.9	5.00	mg/L	50.0		96	80-120	12	20
Matrix Spike (B431204-MS1)		**Source: 2407277-02**		Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	83.2	5.00	mg/L	50.0	29.2	108	80-120		
Matrix Spike Dup (B431204-MSD1)		**Source: 2407277-02**		Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	84.2	5.00	mg/L	50.0	29.2	110	80-120	1	20
Batch B431211 - SM4500-SO3(B)									
Blank (B431211-BLK1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:35			
Sulfite	<1000	1000	ug/L						
LCS (B431211-BS1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:38			
Sulfite	9000	1000	ug/L	10000		90	80-120		
LCS Dup (B431211-BSD1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:40			
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20
Duplicate (B431211-DUP1)		**Source: 2407261-01**		Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:42			
Sulfite	<1000	1000	ug/L		<1000				20

Anions by Ion Chromatography - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430246 - EPA 300.0										
Blank (B430246-BLK1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:14						
Fluoride	<500	500	ug/L							
Chloride	<0.100	0.100	mg/L							
Nitrite as N	<100	100	ug/L							
Bromide	<400	400	ug/L							
Nitrate as N	<0.100	0.100	mg/L							
Sulfate	<0.10	0.10	mg/L							
LCS (B430246-BS1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:32						
Fluoride	1030	500	ug/L	1000		103	90-110			
Chloride	4.98	0.100	mg/L	5.00		100	90-110			
Nitrite as N	4710	100	ug/L	5000		94	90-110			
Bromide	4520	400	ug/L	5000		90	90-110			
Nitrate as N	5.08	0.100	mg/L	5.00		102	90-110			
Sulfate	5.08	0.10	mg/L	5.00		102	90-110			
LCS Dup (B430246-BSD1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:49						
Fluoride	1010	500	ug/L	1000		101	90-110	2	20	
Chloride	4.97	0.100	mg/L	5.00		99	90-110	0.1	20	
Nitrite as N	4730	100	ug/L	5000		95	90-110	0.4	20	
Bromide	4500	400	ug/L	5000		90	90-110	0.4	20	
Nitrate as N	5.08	0.100	mg/L	5.00		102	90-110	0.01	20	
Sulfate	5.07	0.10	mg/L	5.00		101	90-110	0.2	20	
Duplicate (B430246-DUP1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 22:00						
Fluoride	188	500	ug/L		189			0.2	20	
Chloride	1680	25.0	mg/L		1700			1	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	5130	400	ug/L		5150			0.5	20	
Nitrate as N	0.190	0.100	mg/L		0.202			6	20	
Sulfate	2800	25.0	mg/L		2850			2	20	
Matrix Spike (B430246-MS1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 22:53						
Fluoride	1090	500	ug/L	1000	189	90	80-120			
Chloride	575	0.100	mg/L	5.00	1700	NR	80-120			M
Nitrite as N	2850	100	ug/L	5000	<100	57	80-120			M
Bromide	9660	400	ug/L	5000	5150	90	80-120			
Nitrate as N	5.23	0.100	mg/L	5.00	0.202	100	80-120			
Sulfate	4100	0.10	mg/L	5.00	2850	NR	80-120			M
Matrix Spike Dup (B430246-MSD1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 23:11						
Fluoride	1100	500	ug/L	1000	189	92	80-120	2	20	

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430246 - EPA 300.0										
Matrix Spike Dup (B430246-MSD1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 23:11						
Chloride	575	0.100	mg/L	5.00	1700	NR	80-120	0.004	20	M
Nitrite as N	2880	100	ug/L	5000	<100	58	80-120	1	20	M
Bromide	9750	400	ug/L	5000	5150	92	80-120	0.9	20	
Nitrate as N	5.30	0.100	mg/L	5.00	0.202	102	80-120	1	20	
Sulfate	4100	0.10	mg/L	5.00	2850	NR	80-120	0.02	20	M

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:10						
Aluminum	<2	2	ug/L							
Antimony	<5	5	ug/L							
Barium	<3	3	ug/L							
Beryllium	<0.5	0.5	ug/L							
Boron	<20	20	ug/L							
Cadmium	<1	1	ug/L							
Chromium	<3	3	ug/L							
Cobalt	<0.3	0.3	ug/L							
Copper	<2	2	ug/L							
Iron	<7	7	ug/L							
Lead	<0.5	0.5	ug/L							
Magnesium	<20	20	ug/L							
Manganese	<0.5	0.5	ug/L							
Molybdenum	<1	1	ug/L							
Nickel	<2	2	ug/L							
Silver	<0.5	0.5	ug/L							
Thallium	<0.5	0.5	ug/L							
Tin	<5	5	ug/L							
Titanium	<30	30	ug/L							
Zinc	<5	5	ug/L							
LCS (B430276-BS1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:17						

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
LCS (B430276-BS1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:17					
Aluminum	963	2	ug/L	1000		96	85-115		
Antimony	104	5	ug/L	100		104	85-115		
Barium	98.2	3	ug/L	100		98	85-115		
Beryllium	96.5	0.5	ug/L	100		97	85-115		
Boron	98.4	20	ug/L	100		98	85-115		
Cadmium	98.6	1	ug/L	100		99	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.4	0.3	ug/L	100		99	85-115		
Copper	96.7	2	ug/L	100		97	85-115		
Iron	931	7	ug/L	1000		93	85-115		
Lead	98.0	0.5	ug/L	100		98	85-115		
Magnesium	965	20	ug/L	1000		97	85-115		
Manganese	96.2	0.5	ug/L	100		96	85-115		
Molybdenum	96.6	1	ug/L	100		97	85-115		
Nickel	100	2	ug/L	100		100	85-115		
Silver	86.8	0.5	ug/L	100		87	85-115		
Thallium	96.1	0.5	ug/L	100		96	85-115		
Tin	98.2	5	ug/L	100		98	85-115		
Titanium	96.6	30	ug/L	100		97	85-115		
Zinc	97.0	5	ug/L	100		97	85-115		
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:20					
Aluminum	976	2	ug/L	1000		98	85-115	1	20
Antimony	104	5	ug/L	100		104	85-115	0.3	20
Barium	98.6	3	ug/L	100		99	85-115	0.4	20
Beryllium	97.7	0.5	ug/L	100		98	85-115	1	20
Boron	99.8	20	ug/L	100		100	85-115	2	20
Cadmium	98.2	1	ug/L	100		98	85-115	0.4	20
Chromium	99.5	3	ug/L	100		99	85-115	2	20
Cobalt	100	0.3	ug/L	100		100	85-115	1	20
Copper	97.5	2	ug/L	100		97	85-115	0.9	20
Iron	952	7	ug/L	1000		95	85-115	2	20
Lead	100	0.5	ug/L	100		100	85-115	2	20
Magnesium	976	20	ug/L	1000		98	85-115	1	20
Manganese	98.2	0.5	ug/L	100		98	85-115	2	20
Molybdenum	98.8	1	ug/L	100		99	85-115	2	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:20				
Nickel	99.6	2	ug/L	100		100	85-115	0.8	20	
Silver	90.8	0.5	ug/L	100		91	85-115	4	20	
Thallium	99.0	0.5	ug/L	100		99	85-115	3	20	
Tin	99.0	5	ug/L	100		99	85-115	0.8	20	
Titanium	98.2	30	ug/L	100		98	85-115	2	20	
Zinc	98.8	5	ug/L	100		99	85-115	2	20	
Duplicate (B430276-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:27				
Aluminum	35.5	2	ug/L		31.9			11	20	
Antimony	<5	5	ug/L		<5				20	
Barium	52.6	3	ug/L		52.6			0.07	20	
Beryllium	<0.5	0.5	ug/L		<0.5				20	
Boron	967	20	ug/L		987			2	20	
Cadmium	<1	1	ug/L		<1				20	
Chromium	<3	3	ug/L		<3				20	
Cobalt	0.343	0.3	ug/L		0.352			2	20	
Copper	2.32	2	ug/L		2.30			0.9	20	
Iron	111	7	ug/L		101			9	20	
Lead	0.0947	0.5	ug/L		0.103			8	20	
Magnesium	49700	20	ug/L		19600			87	20	S
Manganese	6.20	0.5	ug/L		6.17			0.4	20	
Molybdenum	4.26	1	ug/L		4.66			9	20	
Nickel	5.62	2	ug/L		5.60			0.4	20	
Silver	0.0552	0.5	ug/L		0.221			120	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	3.59	30	ug/L		2.59			32	20	S
Zinc	8.51	5	ug/L		9.22			8	20	
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:31				
Aluminum	1010	2	ug/L	1000	31.9	98	75-125			
Antimony	117	5	ug/L	100	<5	117	75-125			
Barium	156	3	ug/L	100	52.6	103	75-125			
Beryllium	90.7	0.5	ug/L	100	<0.5	91	75-125			
Boron	1040	20	ug/L	100	987	48	75-125			M
Cadmium	102	1	ug/L	100	<1	102	75-125			

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:31				
Chromium	93.3	3	ug/L	100	<3	93	75-125			
Cobalt	92.8	0.3	ug/L	100	0.352	92	75-125			
Copper	88.3	2	ug/L	100	2.30	86	75-125			
Iron	960	7	ug/L	1000	101	86	75-125			
Lead	107	0.5	ug/L	100	0.103	107	75-125			
Magnesium	49200	20	ug/L	1000	19600	NR	75-125			M
Manganese	95.8	0.5	ug/L	100	6.17	90	75-125			
Molybdenum	106	1	ug/L	100	4.66	101	75-125			
Nickel	93.5	2	ug/L	100	5.60	88	75-125			
Silver	97.0	0.5	ug/L	100	0.221	97	75-125			
Thallium	112	0.5	ug/L	100	<0.5	112	75-125			
Tin	106	5	ug/L	100	<5	106	75-125			
Titanium	101	30	ug/L	100	2.59	98	75-125			
Zinc	104	5	ug/L	100	9.22	95	75-125			
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:35				
Aluminum	1000	2	ug/L	1000	31.9	97	75-125	0.9	20	
Antimony	114	5	ug/L	100	<5	114	75-125	3	20	
Barium	151	3	ug/L	100	52.6	99	75-125	3	20	
Beryllium	90.6	0.5	ug/L	100	<0.5	91	75-125	0.07	20	
Boron	1030	20	ug/L	100	987	46	75-125	0.2	20	M
Cadmium	99.7	1	ug/L	100	<1	100	75-125	2	20	
Chromium	92.5	3	ug/L	100	<3	93	75-125	0.9	20	
Cobalt	92.7	0.3	ug/L	100	0.352	92	75-125	0.01	20	
Copper	89.0	2	ug/L	100	2.30	87	75-125	0.7	20	
Iron	957	7	ug/L	1000	101	86	75-125	0.4	20	
Lead	107	0.5	ug/L	100	0.103	107	75-125	0.6	20	
Magnesium	47600	20	ug/L	1000	19600	NR	75-125	3	20	M
Manganese	95.7	0.5	ug/L	100	6.17	89	75-125	0.1	20	
Molybdenum	105	1	ug/L	100	4.66	100	75-125	0.7	20	
Nickel	94.1	2	ug/L	100	5.60	88	75-125	0.6	20	
Silver	95.9	0.5	ug/L	100	0.221	96	75-125	1	20	
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	2	20	
Tin	103	5	ug/L	100	<5	103	75-125	3	20	
Titanium	99.9	30	ug/L	100	2.59	97	75-125	0.7	20	
Zinc	103	5	ug/L	100	9.22	94	75-125	0.5	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Blank (B430203-BLK1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:32						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							CL
Chrysene	<5	5	ug/L							CL
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*114*		*ug/L*	*200*		*57*	*18.3-110*			

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

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Report No. 2407261

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Blank (B430203-BLK1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:32						
Surrogate: 2-Fluorobiphenyl	*50.4*		*ug/L*	*100*		*50*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*78.0*		*ug/L*	*200*		*39*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*46.6*		*ug/L*	*100*		*47*	*8.98-84*			
Surrogate: Phenol-d5	*60.6*		*ug/L*	*200*		*30*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*77.1*		*ug/L*	*100*		*77*	*8.46-114*			
LCS (B430203-BS1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:53						
1,2,4,5-Tetrachlorobenzene	52.9	20	ug/L	80.0		66	0.449-117			
2,4,5-Trichlorophenol	53.1	50	ug/L	80.0		66	20-108			
2,4,6-Trichlorophenol	54.8	10	ug/L	80.0		68	37-144			
2,4-Dichlorophenol	47.0	10	ug/L	80.0		59	39-135			
2,4-Dimethylphenol	58.6	10	ug/L	80.0		73	32-119			
2,4-Dinitrophenol	82.4	50	ug/L	80.0		103	5-191			CH
2-Chlorophenol	44.5	10	ug/L	80.0		56	23-134			
o-Cresol	46.3	10	ug/L	80.0		58	8-87			
2-Nitrophenol	66.2	20	ug/L	80.0		83	29-182			
3,3´-Dichlorobenzidine	58.6	5	ug/L	80.0		73	4.34-262			
m-Cresol & p-Cresol	47.1	10	ug/L	80.0		59	6-85			
4,6-Dinitro-o-cresol	90.8	50	ug/L	80.0		114	5-181			CH
p-Chloro-m-cresol	50.6	10	ug/L	80.0		63	22-147			
4-Nitrophenol	48.0	50	ug/L	80.0		60	5-132			
Anthracene	53.4	10	ug/L	80.0		67	27-133			
Benz(a)anthracene	54.6	5	ug/L	80.0		68	33-143			
Benzidine	70.8	50	ug/L	80.0		88	5-73			L
Benzo(a)pyrene	60.4	5	ug/L	80.0		76	17-163			
Bis(2-Chloroethyl)ether	33.7	10	ug/L	80.0		42	12-158			CL
Bis(2-Ethylhexyl)phthalate	54.0	10	ug/L	80.0		68	8-158			CL
Chrysene	43.4	5	ug/L	80.0		54	17-168			CL
Di-n-butylphthalate	49.9	10	ug/L	80.0		62	1-118			
Hexachlorobenzene	54.4	5	ug/L	80.0		68	5-152			
Hexachlorobutadiene	29.3	10	ug/L	80.0		37	24-116			
Hexachlorocyclopentadiene	28.0	10	ug/L	80.0		35	12-69			
Hexachloroethane	24.6	20	ug/L	80.0		31	40-113			L
Nitrobenzene	46.4	10	ug/L	80.0		58	35-180			
N-Nitrosodiethylamine	41.3	20	ug/L	80.0		52	-2.55-178			
N-Nitrosodi-n-butylamine	41.2	20	ug/L	80.0		52	-4.28-193			

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Report No. 2407261

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
LCS (B430203-BS1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:53						
Pentachlorobenzene	52.9	20	ug/L	80.0		66	-1.08-131			
Pentachlorophenol	64.7	5	ug/L	80.0		81	14-176			
Phenanthrene	49.3	10	ug/L	80.0		62	54-120			
Phenol	28.3	10	ug/L	80.0		35	5-112			
Pyridine	30.4	20	ug/L	80.0		38	5-73			
Surrogate: 2,4,6-Tribromophenol	*158*		*ug/L*	*200*		*79*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*61.5*		*ug/L*	*100*		*62*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*93.8*		*ug/L*	*200*		*47*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*65.5*		*ug/L*	*100*		*66*	*8.98-84*			
Surrogate: Phenol-d5	*71.4*		*ug/L*	*200*		*36*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.6*		*ug/L*	*100*		*86*	*8.46-114*			
LCS Dup (B430203-BSD1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 18:14						
1,2,4,5-Tetrachlorobenzene	56.1	20	ug/L	80.0		70	0.449-117	6	25.7	
2,4,5-Trichlorophenol	56.8	50	ug/L	80.0		71	20-108	7	64	
2,4,6-Trichlorophenol	56.0	10	ug/L	80.0		70	37-144	2	67	
2,4-Dichlorophenol	46.9	10	ug/L	80.0		59	39-135	0.1	70	
2,4-Dimethylphenol	56.7	10	ug/L	80.0		71	32-119	3	72	
2,4-Dinitrophenol	84.6	50	ug/L	80.0		106	5-191	3	142	CH
2-Chlorophenol	42.3	10	ug/L	80.0		53	23-134	5	67	
o-Cresol	42.7	10	ug/L	80.0		53	8-87	8	59	
2-Nitrophenol	65.3	20	ug/L	80.0		82	29-182	1	66	
3,3´-Dichlorobenzidine	61.6	5	ug/L	80.0		77	4.34-262	5	50	
m-Cresol & p-Cresol	45.8	10	ug/L	80.0		57	6-85	3	63	
4,6-Dinitro-o-cresol	93.7	50	ug/L	80.0		117	5-181	3	88	CH
p-Chloro-m-cresol	51.1	10	ug/L	80.0		64	22-147	0.9	66	
4-Nitrophenol	50.2	50	ug/L	80.0		63	5-132	4	84	
Anthracene	54.7	10	ug/L	80.0		68	27-133	2	64	
Benz(a)anthracene	54.6	5	ug/L	80.0		68	33-143	0.04	65	
Benzidine	66.1	50	ug/L	80.0		83	5-73	7	87	L
Benzo(a)pyrene	61.0	5	ug/L	80.0		76	17-163	1	69	
Bis(2-Chloroethyl)ether	33.8	10	ug/L	80.0		42	12-158	0.3	40	CL
Bis(2-Ethylhexyl)phthalate	55.7	10	ug/L	80.0		70	8-158	3	72	CL
Chrysene	51.4	5	ug/L	80.0		64	17-168	17	65	CL
Di-n-butylphthalate	51.6	10	ug/L	80.0		65	1-118	3	68	
Hexachlorobenzene	54.0	5	ug/L	80.0		68	5-152	0.7	69	

CPS Energy - Environmental Dept.
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Report No. 2407261

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
LCS Dup (B430203-BSD1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 18:14						
Hexachlorobutadiene	38.1	10	ug/L	80.0		48	24-116	26	49	
Hexachlorocyclopentadiene	43.1	10	ug/L	80.0		54	12-69	43	65	
Hexachloroethane	34.6	20	ug/L	80.0		43	40-113	34	42	
Nitrobenzene	44.4	10	ug/L	80.0		55	35-180	4	41	
N-Nitrosodiethylamine	42.6	20	ug/L	80.0		53	-2.55-178	3	29	
N-Nitrosodi-n-butylamine	46.7	20	ug/L	80.0		58	-4.28-193	12	37.8	
Pentachlorobenzene	58.8	20	ug/L	80.0		74	-1.08-131	11	25.5	
Pentachlorophenol	65.9	5	ug/L	80.0		82	14-176	2	50	
Phenanthrene	49.3	10	ug/L	80.0		62	54-120	0.1	66	
Phenol	27.0	10	ug/L	80.0		34	5-112	5	69	
Pyridine	27.7	20	ug/L	80.0		35	5-73	9	36	
Surrogate: 2,4,6-Tribromophenol	*157*		*ug/L*	*200*		*79*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*63.5*		*ug/L*	*100*		*64*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*86.4*		*ug/L*	*200*		*43*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*63.0*		*ug/L*	*100*		*63*	*8.98-84*			
Surrogate: Phenol-d5	*69.3*		*ug/L*	*200*		*35*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.0*		*ug/L*	*100*		*85*	*8.46-114*			
Matrix Spike (B430203-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57						
1,2,4,5-Tetrachlorobenzene	83.7	20	ug/L	160	<20	52	26.5-68.5			
2,4,5-Trichlorophenol	99.9	50	ug/L	160	<50	62	44.1-94.9			
2,4,6-Trichlorophenol	95.1	10	ug/L	160	<10	59	42.8-89.7			
2,4-Dichlorophenol	79.1	10	ug/L	160	<10	49	42.7-83.2			
2,4-Dimethylphenol	95.5	10	ug/L	160	<10	60	35.5-84.8			
2,4-Dinitrophenol	165	50	ug/L	160	<50	103	12.9-135			CH
2-Chlorophenol	72.8	10	ug/L	160	<10	46	42.6-73.1			
o-Cresol	74.4	10	ug/L	160	<10	46	45.4-61.4			
2-Nitrophenol	110	20	ug/L	160	<20	68	45.6-74.3			
3,3´-Dichlorobenzidine	104	5	ug/L	160	<5	65	25-203			
m-Cresol & p-Cresol	78.3	10	ug/L	160	<10	49	3-75			
4,6-Dinitro-o-cresol	178	50	ug/L	160	<50	111	26.6-112			CH
p-Chloro-m-cresol	88.8	10	ug/L	160	<10	55	32.5-89.3			
4-Nitrophenol	95.0	50	ug/L	160	<50	59	8-58			M
Anthracene	99.0	10	ug/L	160	<10	62	50.1-92.2			
Benz(a)anthracene	102	5	ug/L	160	<5	63	36.3-111			
Benzidine	66.8	50	ug/L	160	<50	42	15-150			

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Report No. 2407261

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Matrix Spike (B430203-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57						
Benzo(a)pyrene	113	5	ug/L	160	<5	71	27.5-124			
Bis(2-Chloroethyl)ether	55.2	10	ug/L	160	<10	35	38.3-70.8			CL M
Bis(2-Ethylhexyl)phthalate	104	10	ug/L	160	<10	65	13.2-168			CL
Chrysene	98.5	5	ug/L	160	<5	62	40.6-101			CL
Di-n-butylphthalate	97.5	10	ug/L	160	<10	61	27.4-123			
Hexachlorobenzene	98.8	5	ug/L	160	<5	62	49.6-94.3			
Hexachlorobutadiene	60.6	10	ug/L	160	<10	38	44-74.7			M
Hexachlorocyclopentadiene	64.2	10	ug/L	160	<10	40	47.3-73			M
Hexachloroethane	52.0	20	ug/L	160	<20	33	37.1-86.8			M
Nitrobenzene	75.8	10	ug/L	160	<10	47	42.3-89.2			
N-Nitrosodiethylamine	67.8	20	ug/L	160	<20	42	37.4-148			
N-Nitrosodi-n-butylamine	71.8	20	ug/L	160	<20	45	39.8-163			
Pentachlorobenzene	94.2	20	ug/L	160	<20	59	31.6-77.8			
Pentachlorophenol	128	5	ug/L	160	<5	80	31-117			
Phenanthrene	90.1	10	ug/L	160	<10	56	48.4-95.5			
Phenol	49.2	10	ug/L	160	<10	31	6-39			
Pyridine	53.1	20	ug/L	160	<20	33	4-58			
Surrogate: 2,4,6-Tribromophenol	*280*		*ug/L*	*400*		*70*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*200*		*53*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*149*		*ug/L*	*400*		*37*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*102*		*ug/L*	*200*		*51*	*8.98-84*			
Surrogate: Phenol-d5	*125*		*ug/L*	*400*		*31*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*159*		*ug/L*	*200*		*79*	*8.46-114*			

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430202 - ASTM D7065-11									
Blank (B430202-BLK1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:32					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*110*		*ug/L*	*200*		*55*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*49.7*		*ug/L*	*100*		*50*	*27-111*		

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Report No. 2407261

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430202 - ASTM D7065-11									
Blank (B430202-BLK1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:32					
Surrogate: Phenol-d5	*52.8*		*ug/L*	*200*		*26*	*5-64.3*		
Surrogate: 2-Fluorophenol	*65.6*		*ug/L*	*200*		*33*	*5-64.3*		
Surrogate: Terphenyl-d14	*71.6*		*ug/L*	*100*		*72*	*5-114*		
Surrogate: Nitrobenzene-d5	*38.9*		*ug/L*	*100*		*39*	*22-117*		
LCS (B430202-BS1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:53					
Nonylphenol	300	333	ug/L	500		60	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*154*		*ug/L*	*200*		*77*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*60.7*		*ug/L*	*100*		*61*	*27-111*		
Surrogate: Phenol-d5	*62.2*		*ug/L*	*200*		*31*	*5-64.3*		
Surrogate: 2-Fluorophenol	*78.8*		*ug/L*	*200*		*39*	*5-64.3*		
Surrogate: Terphenyl-d14	*79.5*		*ug/L*	*100*		*80*	*5-114*		
Surrogate: Nitrobenzene-d5	*54.6*		*ug/L*	*100*		*55*	*22-117*		
LCS Dup (B430202-BSD1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 18:14					
Nonylphenol	299	333	ug/L	500		60	32.3-103	0.3	21.4
Surrogate: 2,4,6-Tribromophenol	*153*		*ug/L*	*200*		*76*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*62.7*		*ug/L*	*100*		*63*	*27-111*		
Surrogate: Phenol-d5	*60.4*		*ug/L*	*200*		*30*	*5-64.3*		
Surrogate: Terphenyl-d14	*78.9*		*ug/L*	*100*		*79*	*5-114*		
Surrogate: 2-Fluorophenol	*72.6*		*ug/L*	*200*		*36*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*52.5*		*ug/L*	*100*		*52*	*22-117*		
Matrix Spike (B430202-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57					
Nonylphenol	553	333	ug/L	1000	<333	55	26-117		
Surrogate: 2,4,6-Tribromophenol	*272*		*ug/L*	*400*		*68*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*104*		*ug/L*	*200*		*52*	*27-111*		
Surrogate: Phenol-d5	*109*		*ug/L*	*400*		*27*	*5-64.3*		
Surrogate: 2-Fluorophenol	*125*		*ug/L*	*400*		*31*	*5-64.3*		
Surrogate: Terphenyl-d14	*147*		*ug/L*	*200*		*74*	*5-114*		
Surrogate: Nitrobenzene-d5	*85.4*		*ug/L*	*200*		*43*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430242 - EPA 608.3									
Blank (B430242-BLK1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:31					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.370*		*ug/L*	*0.500*		*74*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.139*		*ug/L*	*0.500*		*28*	*10.2-92.4*		
LCS (B430242-BS1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:42					
PCB 1016	2.99	0.2	ug/L	5.00		60	13.9-125		
PCB 1260	3.42	0.2	ug/L	5.00		68	29.3-140		
Surrogate: Decachlorobiphenyl	*0.313*		*ug/L*	*0.500*		*63*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.218*		*ug/L*	*0.500*		*44*	*10.2-92.4*		
LCS Dup (B430242-BSD1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:53					
PCB 1016	3.11	0.2	ug/L	5.00		62	13.9-125	4	29.5
PCB 1260	3.45	0.2	ug/L	5.00		69	29.3-140	0.8	23.1
Surrogate: Decachlorobiphenyl	*0.314*		*ug/L*	*0.500*		*63*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.223*		*ug/L*	*0.500*		*45*	*10.2-92.4*		
Matrix Spike (B430242-MS1)		**Source: 2407261-01**		Prepared: 07/23/24 15:00 Analyzed: 07/26/24 13:37					
PCB 1016	3.06	0.2	ug/L	5.00	<0.2	61	23.5-116		
PCB 1260	3.25	0.2	ug/L	5.00	<0.2	65	13.3-134		
Surrogate: Decachlorobiphenyl	*0.326*		*ug/L*	*0.500*		*65*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.223*		*ug/L*	*0.500*		*45*	*10.2-92.4*		
Matrix Spike Dup (B430242-MSD1)		**Source: 2407261-01**		Prepared: 07/23/24 15:00 Analyzed: 07/26/24 13:48					
PCB 1016	3.05	0.2	ug/L	5.00	<0.2	61	23.5-116	0.3	52
PCB 1260	3.28	0.2	ug/L	5.00	<0.2	66	13.3-134	0.8	40
Surrogate: Decachlorobiphenyl	*0.328*		*ug/L*	*0.500*		*66*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.222*		*ug/L*	*0.500*		*44*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

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Report No. 2407261

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
Blank (B429241-BLK1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 12:16						
1,1,1-Trichloroethane	<10	10	ug/L							
1,1,2,2-Tetrachloroethane	<10	10	ug/L							
1,1,2-Trichloroethane	<10	10	ug/L							
1,1-Dichloroethane	<10	10	ug/L							
1,1-Dichloroethylene	<10	10	ug/L							
1,2-Dibromoethane	<10	10	ug/L							
o-Dichlorobenzene	<10	10	ug/L							
1,2-Dichloroethane	<10	10	ug/L							
1,2-Dichloropropane	<10	10	ug/L							
m-Dichlorobenzene	<10	10	ug/L							
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L							
p-Dichlorobenzene	<10	10	ug/L							
2-Chloroethyl Vinyl Ether	<10	10	ug/L							
Acrolein	<50	50	ug/L							
Acrylonitrile	<50	50	ug/L							
Benzene	<10	10	ug/L							
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L							
Bromoform	<10	10	ug/L							
Methyl Bromide	<50	50	ug/L							
Carbon Tetrachloride	<2	2	ug/L							
Chlorobenzene	<10	10	ug/L							
Chloroethane	<50	50	ug/L							
Chloroform	<10	10	ug/L							
Methyl Chloride	<50	50	ug/L							
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L							
Ethylbenzene	<10	10	ug/L							
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L							CL
Dichloromethane [Methylene Chloride]	<20	20	ug/L							
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L							
Toluene	<10	10	ug/L							
trans-1,2-Dichloroethylene	<10	10	ug/L							
Trichloroethylene [Trichloroethene]	<10	10	ug/L							
Vinyl chloride [Chloroethene]	<10	10	ug/L							
Surrogate: 4-Bromofluorobenzene	*44.9*		*ug/L*	*50.0*		*90*	*80-106*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*90*	*83-118*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99*	*91-109*			

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Report No. 2407261

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS (B429241-BS1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:19						
1,1,1-Trichloroethane	49.8	10	ug/L	50.0		100	70-130			
1,1,2,2-Tetrachloroethane	48.4	10	ug/L	50.0		97	60-140			
1,1,2-Trichloroethane	52.5	10	ug/L	50.0		105	70-130			
1,1-Dichloroethane	48.8	10	ug/L	50.0		98	70-130			
1,1-Dichloroethylene	49.6	10	ug/L	50.0		99	50-150			
1,2-Dibromoethane	54.6	10	ug/L	50.0		109	71.6-124			
o-Dichlorobenzene	59.5	10	ug/L	50.0		119	65-135			
1,2-Dichloroethane	48.6	10	ug/L	50.0		97	70-130			
1,2-Dichloropropane	50.3	10	ug/L	50.0		101	35-165			
m-Dichlorobenzene	59.5	10	ug/L	50.0		119	70-130			
p-Dichlorobenzene	57.3	10	ug/L	50.0		115	65-135			
2-Chloroethyl Vinyl Ether	49.8	10	ug/L	50.0		100	1-225			
Acrolein	58.2	50	ug/L	50.0		116	60-140			
Acrylonitrile	43.2	50	ug/L	50.0		86	60-140			
Benzene	51.4	10	ug/L	50.0		103	65-135			
Dichlorobromomethane [Bromodichloromethane]	52.3	10	ug/L	50.0		105	65-135			
Bromoform	51.8	10	ug/L	50.0		104	70-130			
Methyl Bromide	54.2	50	ug/L	50.0		108	15-185			
Carbon Tetrachloride	51.7	2	ug/L	50.0		103	70-130			
Chlorobenzene	55.8	10	ug/L	50.0		112	65-135			
Chloroethane	46.0	50	ug/L	50.0		92	40-160			
Chloroform	51.5	10	ug/L	50.0		103	70-135			
Methyl Chloride	38.1	50	ug/L	50.0		76	1-205			
Dibromochloromethane [Chlorodibromomethane]	52.1	10	ug/L	50.0		104	70-135			
Ethylbenzene	54.7	10	ug/L	50.0		109	60-140			
Methyl Ethyl Ketone (2-Butanone)	30.9	50	ug/L	50.0		62	56.5-136			CL
Dichloromethane [Methylene Chloride]	58.5	20	ug/L	50.0		117	60-140			
Tetrachloroethylene [Tetrachloroethene]	51.4	10	ug/L	50.0		103	70-130			
Toluene	53.1	10	ug/L	50.0		106	70-130			
trans-1,2-Dichloroethylene	49.8	10	ug/L	50.0		100	70-130			
Trichloroethylene [Trichloroethene]	54.6	10	ug/L	50.0		109	65-135			
Vinyl chloride [Chloroethene]	39.8	10	ug/L	50.0		80	5-195			
Surrogate: 4-Bromofluorobenzene	*49.3*		*ug/L*	*50.0*		*99*	*80-106*			

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Report No. 2407261

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS (B429241-BS1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:19						
Surrogate: Dibromofluoromethane	*46.8*		*ug/L*	*50.0*		*94*	*83-118*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99*	*91-109*			
LCS Dup (B429241-BSD1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:48						
1,1,1-Trichloroethane	50.7	10	ug/L	50.0		101	70-130	2	36	
1,1,2,2-Tetrachloroethane	49.1	10	ug/L	50.0		98	60-140	2	61	
1,1,2-Trichloroethane	52.0	10	ug/L	50.0		104	70-130	0.9	45	
1,1-Dichloroethane	49.6	10	ug/L	50.0		99	70-130	2	40	
1,1-Dichloroethylene	50.1	10	ug/L	50.0		100	50-150	0.9	32	
1,2-Dibromoethane	53.9	10	ug/L	50.0		108	71.6-124	1	20.3	
o-Dichlorobenzene	58.7	10	ug/L	50.0		117	65-135	1	57	
1,2-Dichloroethane	48.9	10	ug/L	50.0		98	70-130	0.6	49	
1,2-Dichloropropane	50.5	10	ug/L	50.0		101	35-165	0.4	55	
m-Dichlorobenzene	59.4	10	ug/L	50.0		119	70-130	0.2	43	
p-Dichlorobenzene	56.9	10	ug/L	50.0		114	65-135	0.7	57	
2-Chloroethyl Vinyl Ether	48.3	10	ug/L	50.0		97	1-225	3	71	
Acrolein	58.8	50	ug/L	50.0		118	60-140	1	60	
Acrylonitrile	42.4	50	ug/L	50.0		85	60-140	2	60	
Benzene	52.1	10	ug/L	50.0		104	65-135	1	61	
Dichlorobromomethane [Bromodichloromethane]	52.2	10	ug/L	50.0		104	65-135	0.2	56	
Bromoform	51.6	10	ug/L	50.0		103	70-130	0.4	42	
Methyl Bromide	54.9	50	ug/L	50.0		110	15-185	1	61	
Carbon Tetrachloride	52.2	2	ug/L	50.0		104	70-130	1	41	
Chlorobenzene	56.0	10	ug/L	50.0		112	65-135	0.3	53	
Chloroethane	46.6	50	ug/L	50.0		93	40-160	1	78	
Chloroform	52.2	10	ug/L	50.0		104	70-135	1	54	
Methyl Chloride	39.1	50	ug/L	50.0		78	1-205	3	60	
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0		104	70-135	0.7	50	
Ethylbenzene	55.2	10	ug/L	50.0		110	60-140	1	63	
Methyl Ethyl Ketone (2-Butanone)	30.2	50	ug/L	50.0		60	56.5-136	2	30.7	CL
Dichloromethane [Methylene Chloride]	59.1	20	ug/L	50.0		118	60-140	0.9	28	
Tetrachloroethylene [Tetrachloroethene]	50.2	10	ug/L	50.0		100	70-130	2	39	
Toluene	53.4	10	ug/L	50.0		107	70-130	0.5	41	
trans-1,2-Dichloroethylene	50.4	10	ug/L	50.0		101	70-130	1	45	

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Report No. 2407261

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS Dup (B429241-BSD1)				Prepared: 07/18/24 10:10		Analyzed: 07/18/24 11:48				
Trichloroethylene [Trichloroethene]	53.8	10	ug/L	50.0		108	65-135	2	48	
Vinyl chloride [Chloroethene]	40.4	10	ug/L	50.0		81	5-195	2	66	
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*			
Surrogate: Dibromofluoromethane	*47.4*		*ug/L*	*50.0*		*95*	*83-118*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike (B429241-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:00				
1,1,1-Trichloroethane	47.6	10	ug/L	50.0	<10	95	52-162			
1,1,2,2-Tetrachloroethane	54.5	10	ug/L	50.0	<10	109	46-157			
1,1,2-Trichloroethane	50.9	10	ug/L	50.0	<10	102	52-150			
1,1-Dichloroethane	47.1	10	ug/L	50.0	<10	94	59-155			
1,1-Dichloroethylene	47.0	10	ug/L	50.0	<10	94	1-234			
1,2-Dibromoethane	51.8	10	ug/L	50.0	<10	104	64.7-132			
o-Dichlorobenzene	54.1	10	ug/L	50.0	<10	108	18-190			
1,2-Dichloroethane	47.0	10	ug/L	50.0	<10	94	49-155			
1,2-Dichloropropane	48.3	10	ug/L	50.0	<10	97	1-210			
m-Dichlorobenzene	52.0	10	ug/L	50.0	<10	104	59-156			
p-Dichlorobenzene	50.9	10	ug/L	50.0	<10	102	18-190			
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305			
Acrolein	61.6	50	ug/L	50.0	<50	123	40-160			
Acrylonitrile	46.2	50	ug/L	50.0	<50	92	40-160			
Benzene	49.0	10	ug/L	50.0	<10	98	37-151			
Dichlorobromomethane [Bromodichloromethane]	49.6	10	ug/L	50.0	<10	99	35-155			
Bromoform	48.9	10	ug/L	50.0	<10	98	45-169			
Methyl Bromide	52.4	50	ug/L	50.0	<50	105	1-242			
Carbon Tetrachloride	48.5	2	ug/L	50.0	<2	97	70-140			
Chlorobenzene	50.6	10	ug/L	50.0	<10	101	37-160			
Chloroethane	44.0	50	ug/L	50.0	<50	88	14-230			
Chloroform	49.5	10	ug/L	50.0	<10	99	51-138			
Methyl Chloride	36.4	50	ug/L	50.0	<50	73	1-273			
Dibromochloromethane [Chlorodibromomethane]	48.5	10	ug/L	50.0	<10	97	53-149			
Ethylbenzene	50.3	10	ug/L	50.0	<10	101	37-162			
Methyl Ethyl Ketone (2-Butanone)	34.0	50	ug/L	50.0	<50	68	41.9-177			CL
Dichloromethane [Methylene Chloride]	44.2	20	ug/L	50.0	<20	88	1-221			

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Report No. 2407261

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B429241 - EPA 624.1									
Matrix Spike (B429241-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:00			
Tetrachloroethylene [Tetrachloroethene]	38.2	10	ug/L	50.0	<10	76	64-148		
Toluene	50.1	10	ug/L	50.0	<10	100	47-150		
trans-1,2-Dichloroethylene	47.2	10	ug/L	50.0	<10	94	54-156		
Trichloroethylene [Trichloroethene]	48.8	10	ug/L	50.0	<10	98	70-157		
Vinyl chloride [Chloroethene]	39.1	10	ug/L	50.0	<10	78	1-251		
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*80-106*		
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*83-118*		
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.0*		*100*	*91-109*		
Matrix Spike Dup (B429241-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:29			
1,1,1-Trichloroethane	48.7	10	ug/L	50.0	<10	97	52-162	2	36
1,1,2,2-Tetrachloroethane	56.4	10	ug/L	50.0	<10	113	46-157	3	61
1,1,2-Trichloroethane	53.4	10	ug/L	50.0	<10	107	52-150	5	45
1,1-Dichloroethane	46.6	10	ug/L	50.0	<10	93	59-155	1	40
1,1-Dichloroethylene	46.4	10	ug/L	50.0	<10	93	1-234	1	32
1,2-Dibromoethane	53.4	10	ug/L	50.0	<10	107	64.7-132	3	26.5
o-Dichlorobenzene	45.6	10	ug/L	50.0	<10	91	18-190	17	57
1,2-Dichloroethane	50.0	10	ug/L	50.0	<10	100	49-155	6	49
1,2-Dichloropropane	46.8	10	ug/L	50.0	<10	94	1-210	3	55
m-Dichlorobenzene	53.6	10	ug/L	50.0	<10	107	59-156	3	43
p-Dichlorobenzene	48.3	10	ug/L	50.0	<10	97	18-190	5	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		71
Acrolein	60.2	50	ug/L	50.0	<50	120	40-160	2	60
Acrylonitrile	47.2	50	ug/L	50.0	<50	94	40-160	2	60
Benzene	49.6	10	ug/L	50.0	<10	99	37-151	1	61
Dichlorobromomethane [Bromodichloromethane]	50.3	10	ug/L	50.0	<10	101	35-155	1	56
Bromoform	52.2	10	ug/L	50.0	<10	104	45-169	7	42
Methyl Bromide	50.9	50	ug/L	50.0	<50	102	1-242	3	61
Carbon Tetrachloride	49.3	2	ug/L	50.0	<2	99	70-140	2	41
Chlorobenzene	54.8	10	ug/L	50.0	<10	110	37-160	8	53
Chloroethane	42.7	50	ug/L	50.0	<50	85	14-230	3	78
Chloroform	49.2	10	ug/L	50.0	<10	98	51-138	0.4	54
Methyl Chloride	37.9	50	ug/L	50.0	<50	76	1-273	4	60
Dibromochloromethane [Chlorodibromomethane]	49.8	10	ug/L	50.0	<10	100	53-149	3	50

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Report No. 2407261

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
Matrix Spike Dup (B429241-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10 Analyzed: 07/18/24 17:29						
Ethylbenzene	54.4	10	ug/L	50.0	<10	109	37-162	8	63	
Methyl Ethyl Ketone (2-Butanone)	34.2	50	ug/L	50.0	<50	68	41.9-177	0.5	21.3	CL
Dichloromethane [Methylene Chloride]	44.4	20	ug/L	50.0	<20	89	1-221	0.5	28	
Tetrachloroethylene [Tetrachloroethene]	38.7	10	ug/L	50.0	<10	77	64-148	1	39	
Toluene	49.0	10	ug/L	50.0	<10	98	47-150	2	41	
trans-1,2-Dichloroethylene	48.4	10	ug/L	50.0	<10	97	54-156	2	45	
Trichloroethylene [Trichloroethene]	46.9	10	ug/L	50.0	<10	94	70-157	4	48	
Vinyl chloride [Chloroethene]	44.3	10	ug/L	50.0	<10	89	1-251	12	66	
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*80-106*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.0*		*105*	*83-118*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.0*		*102*	*91-109*			

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B429242 - EPA 5030B									
Blank (B429242-BLK1)				Prepared: 07/18/24 10:00 Analyzed: 07/18/24 12:16					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*44.9*		*ug/L*	*50.0*		*90*	*65.7-120*		
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*90*	*81.2-126*		
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99*	*87.4-109*		
LCS (B429242-BS1)				Prepared: 07/18/24 10:00 Analyzed: 07/18/24 11:19					
Dichlorobromomethane [Bromodichloromethane]	52.3	2.50	ug/L	50.0		105	80-120		
Bromoform	51.8	2.50	ug/L	50.0		104	80-120		
Chloroform	51.5	2.50	ug/L	50.0		103	80-120		

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 1)

Reported:
12/20/24 10:21
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407261 1-SATL1 FINAL 08 07 24 1908) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407261

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B429242 - EPA 5030B									
LCS (B429242-BS1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 11:19			
Dibromochloromethane [Chlorodibromomethane]	52.1	2.50	ug/L	50.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	*49.3*		*ug/L*	*50.0*		*99*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.8*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99*	*87.4-109*		
LCS Dup (B429242-BSD1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 11:48			
Dichlorobromomethane [Bromodichloromethane]	52.2	2.50	ug/L	50.0		104	80-120	0.2	20
Bromoform	51.6	2.50	ug/L	50.0		103	80-120	0.4	20
Chloroform	52.2	2.50	ug/L	50.0		104	80-120	1	20
Dibromochloromethane [Chlorodibromomethane]	51.8	2.50	ug/L	50.0		104	80-120	0.7	20
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.4*		*ug/L*	*50.0*		*95*	*81.2-126*		
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike (B429242-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 17:00			
Dichlorobromomethane [Bromodichloromethane]	49.6	2.50	ug/L	50.0	<2.50	99	80-120		
Bromoform	48.9	2.50	ug/L	50.0	<2.50	98	80-120		
Chloroform	49.5	2.50	ug/L	50.0	<2.50	99	80-120		
Dibromochloromethane [Chlorodibromomethane]	48.5	2.50	ug/L	50.0	<2.50	97	80-120		
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*65.7-120*		
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*81.2-126*		
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike Dup (B429242-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 17:29			
Dichlorobromomethane [Bromodichloromethane]	50.3	2.50	ug/L	50.0	<2.50	101	80-120	1	20
Bromoform	52.2	2.50	ug/L	50.0	<2.50	104	80-120	7	20
Chloroform	49.2	2.50	ug/L	50.0	<2.50	98	80-120	0.4	20
Dibromochloromethane [Chlorodibromomethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120	3	20
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*65.7-120*		
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.0*		*105*	*81.2-126*		
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.0*		*102*	*87.4-109*		

CPS Energy - Environmental Dept.
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Report No. 2407261

SAMPLE QUALIFIERS

Za	Sample amount given was not enough for QC.
Z	Fluoride Value 1.17 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

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Report No. 2407261

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407261-01	CN_Sub
Eurofins - Pittsburgh	2407261-01	Color_SUB

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2407261
ADDRESS: 12940 US HWY 181 S	ADDRESS:	
CITY: SA STATE: TX ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: cvasbinder PHONE #: 210.213.7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB 001 PP (week1)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____ °C; LCS/D:_____/_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO AUTHORIZE TO PROCEED _____
PROPER CONTAINERS INTACT ☒ YES ☐ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____

SAMPLED BY: J. Dotray/cvasbinder OBSERVED TEMP. 3.4°C CORRECTED TEMP. 3.4°C TEMP. I.R. GUN # 7 SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / ECoil / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	PP (SEE attachment)	PRESERVED WITH: Ice / HCl / HNO3 / H2SO4 / NaOH / NaOH+ZnAc / MeOH / HNO3	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	VOA AIR BUBBLES	REMARKS
1	7-17-24	0940		X								X			VHB 001	25	1165mL									X				X	X	X	X	X	X	

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
[signature]	7-17-24 1159	[signature]	JUL 17 2024				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
cvasbinder		Aimee Landon	1127				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO Eurofins pitts bmg	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet	Notes
(Process Water Outfalls)	1	CAL/VHB	External	Yes	
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes	Cyanide method OIA 1677
	3	CAL/VHB	External	Yes	
	4	CAL	001 & 007 Only	Yes	No E. coli sampling at VHB
	6	CAL/VHB	External	Yes	
	8	CAL/VHB	External	Yes	
	9	CAL/VHB	External	Yes	

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Parameters Ordered from SATL	All except Hg, Ar & Se	Use detection limit from permit app tables.
Parameters Ordered from Albion	Hg, Ar & Se	
Test America	Cn	

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet

4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

Additional Toxic Pollutants and Hazardous Substances

Toxic Pollutants		
Asbestos		
Hazardous Substances		
Acetaldehyde	Dinitrobenzene	Phenolsulfonate
Allyl alcohol	Diquat	Phosgene
Allyl chloride	Disulfoton	Propargite
Amyl acetate	Diuron	Propylene oxide
Aniline	Epichlorohydrin	Pyrethrins
Benzonitrile	Ethion	Quinoline
Benzyl chloride	Ethylene diamine	Resorcinol
Butyl acetate	Formaldehyde	Strontium
Butylamine	Furfural	Strychnine
Carbofuran	Isoprene	Styrene
Carbon disulfide	Isopropanolamine	2,4,5-T
Coumaphos	Kepone	TDE (Tetrachlorodiphenylethane)
Cresol	Mercaptodimethur	Trichlorfon
Crotonaldehyde	Methyl mercaptan	Triethylamine
Cyclohexane	Methyl methacrylate	Trimethylamine
Dicamba	Mevinphos	Uranium
Dichlobenil	Mexacarbate	Vanadium
Dichlone	Monoethylamine	Vinyl acetate
2,2-Dichloropropionic acid	Monomethylamine	Xylene
Dichlorvos	Naled	Xylenol
Diethylamine	Naphthenic acid	Zirconium
Dimethylamine	Nitrotoluene	

Minimum Analytical Levels and Suggested Methods for Application Screening

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Acenaphthene	83-32-9	10	625
Acenaphthylene	208-96-8	10	625
Acetaldehyde	75-07-0	50	1667
Acrolein	107-02-8	50	624
Acrylonitrile	107-13-1	50	624, 1624B
Aldrin	309-00-2	0.01	608
Allyl alcohol	107-18-6	50	608
Allyl chloride	107-05-1	10	1624
Aluminum, total	7429-90-5	2.5	200.8
Amyl acetate	628-63-7	5	1666
Aniline	62-53-3	10	625
Anthracene	120-12-7	10	625
Antimony, total	7440-36-0	5	200.8
Arsenic, total	7440-38-2	0.5	200.8
Asbestos	1332-21-4	—	100.1 and 100.2
Barium, total	7440-39-3	3	200.8
Benzene	71-43-2	10	624

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Copper, total	7440-50-8	2	200.8
Coumaphos	56-72-4	0.025	1657
Cresols (all isomers)	1319-77-3	10	625
m-Cresol [3-Methylphenol]	108-39-4	10	625
o-Cresol [2-Methylphenol]	95-48-7	10	625
p-Cresol [4-Methylphenol]	106-44-5	10	625
Crotonaldehyde	4170-30-3	10	1624
Cyanide, total	57-12-5	10	335.4, 4500-CN D, or 4500-CN E
Cyanide, free or available	57-12-5	10	4500-CN G
	57-12-5	2	OIA-1677
Cyclohexane	110-82-7	5	1666
4,4'-DDD	72-54-8	0.1	608
4,4'-DDE	72-55-9	0.1	608
4,4'-DDT	50-29-3	0.02	608
2,4-D	94-75-7	0.7	615 or SM6640B
Danitol [Fenpropathrin]	39515-41-8	†	†
Demeton	8065-48-3	0.20	1657
Diazinon	333-41-5	0.5	1657
		0.1	614
Dibenzo(a,h)anthracene	53-70-3	5	625
1,2-Dibromoethane	106-93-4	10	1624
Dicamba	1918-00-9	0.110	1658
Dichlone	117-80-6	—	1656
m-Dichlorobenzene [1,3-Dichlorobenzene]	541-73-1	10	624
o-Dichlorobenzene [1,2-Dichlorobenzene]	95-50-1	10	624
p-Dichlorobenzene [1,4-Dichlorobenzene]	106-46-7	10	624
3,3'-Dichlorobenzidine	91-94-1	5	625
1,1-Dichloroethane	75-34-3	10	624
1,2-Dichloroethane	107-06-2	10	624
1,1-Dichloroethene [1,1-Dichloroethylene]	75-35-4	10	624
Dichloromethane [Methylene chloride]	75-09-2	20	624
2,4-Dichlorophenol	120-83-2	10	625
1,2-Dichloropropane	78-87-5	10	624
1,3-Dichloropropene [1,3-Dichloropropylene]	542-75-6	10	624
2,2-Dichloropropionic acid [Dalapon]	75-99-0	2	615
Dichlorvos	62-73-7	0.004	1657
Dicofol [Kelthane]	115-32-2	1	ASTM D5812-96(02)
Dieldrin	60-57-1	0.02	608
Diethyl amine	109-89-7	50 mg/L	1671
Diethyl phthalate	84-66-2	10	625
Dimethyl amine	124-40-3	50 mg/L	1671
2,4-Dimethylphenol	105-67-9	10	625

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Fluoride	16984-48-8	500	300.0, 300.1
Formaldehyde	50-00-0	50	1667
Furfural	98-01-1	50 mg/L	1667
Guthion [Azinphos methyl]	86-50-0	0.1	1657
Heptachlor	76-44-8	0.01	608
Heptachlor epoxide	1024-57-3	0.01	608
Hexachlorobenzene	118-74-1	5	625
Hexachlorobutadiene	87-68-3	10	625
Hexachlorocyclohexane (alpha)	319-84-6	0.05	608
Hexachlorocyclohexane (beta)	319-85-7	0.05	608
Hexachlorocyclohexane (gamma) [Lindane]	58-89-9	0.05	608
Hexachlorocyclohexane (delta)	319-86-8	0.05	608
Hexachlorocyclopentadiene	77-47-4	10	625 or 1625B
Hexachloroethane	67-72-1	20	625
Hexachlorophene	70-30-4	10	604.1
Indeno(1,2,3-cd)pyrene	193-39-5	5	625
Iron, total	7439-89-6	7	200.7
Isophorone	78-59-1	10	625
Kepone	143-50-0	0.3	1656
Lead, total	7439-92-1	0.5	200.8
Magnesium, total	7439-95-4	20	200.7
Malathion	121-75-5	0.1	1657 or SM6630C
Manganese, total	7439-96-5	0.5	200.8
Mercaptodimethur [Methiocarb]	2032-65-7	0.06	632
Mercury, total	7439-97-6	0.005	245.7, Rev. 2.0
	7439-97-6	0.0005	1631E
Methoxychlor	72-43-5	2.0	617 or SM6630B and C
Methyl bromide [Bromomethane]	74-83-9	50	624
Methyl chloride [Chloromethane]	74-87-3	50	624
Methyl ethyl ketone	78-93-3	50	624
Methyl methacrylate	80-62-6	10	1624
Mevinphos	7786-34-7	0.2	1657
Mexacarbate	315-18-4	1.5	632
Mirex	2385-85-5	0.02	SM6630B and C
Molybdenum, total	7439-98-7	1	200.8
Monomethylamine	74-89-5	50 mg/L	1667
Naled	300-76-5	0.05	1657
Naphthalene	91-20-3	10	625
Nickel, total	7440-02-0	2	200.8
Nitrate-nitrogen	14797-55-8	100	300.0, Rev. 2.1 300.1, Rev. 1.0
Nitrobenzene	98-95-3	10	625
2-Nitrophenol	88-75-5	20	625
4-Nitrophenol	100-02-7	50	625

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Toluene	108-88-3	10	624
Toxaphene	8001-35-2	0.3	608
2,4,5-TP [Silvex]	93-72-1	0.3	SM6640B
1,2-Trans-Dichloroethylene [1,2-Trans-Dichloroethene]	156-60-5	10	624
Tributyltin	688-73-3	0.01	TCEQ 1001
1,2,4-Trichlorobenzene	120-82-1	10	625
1,1,1-Trichloroethane	71-55-6	10	624
1,1,2-Trichloroethane	79-00-5	10	624
Trichloroethene [Trichloroethylene]	79-01-6	10	624
Trichlorfon	52-68-6	0.45	1657
2,4,5-Trichlorophenol	95-95-4	50	1625
2,4,6-Trichlorophenol	88-06-2	10	625
Triethylamine	121-44-8	50 mg/L	1667
TTHM (Total Trihalomethanes)	(see below)	(see below)	(see below)
Bromodichloromethane	75-27-4	10	624
Dibromochloromethane	124-48-1	10	624
Tribromomethane (Bromoform)	75-25-2	10	624
Trichloromethane (Chloroform)	67-66-3	10	624
Trimethylamine	75-50-3	—	1666
Uranium, total	7440-61-1	0.5	200.8
Vanadium, total	7440-62-2	5	200.8
Vinyl acetate	108-05-4	50	1624
Vinyl chloride	75-01-4	10	624
Xylenes, total	1330-20-7	10	624
Xylenol	1300-71-6	30	1624C
Zinc, total	7440-66-6	5.0	200.8
Zirconium	7440-67-7	100	1620

— MAL not yet developed.
* Chemical Abstracts Service Registry Number
** Hydrolyzes in water. No analysis required at this time.
*** Trivalent Chromium (Cr) determined by subtracting Hexavalent Cr from Total Cr.
† EPA procedure not approved. The TCEQ will not require applicants to analyze at this time.
†† Until Method 1668B or equivalent method to measure PCB congeners is approved in *40 CFR Part 136*, compliance with PCB criteria is determined using Arochlor data or any alternate method listed in a TCEQ-approved Quality Assurance Plan.

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____

(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018):

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:**

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
~~Arsenic, total~~					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
~~Mercury, total~~					0.005/0.0005
Nickel, total					2
~~Selenium, total~~					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO_3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☐ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: : Volatile Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: : Acid Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: : Base/Neutral Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: 001 (Week 1)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407261

Work Order Due by:	07/26/24 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	07/17/24 11:27
Logged In By:	Aimee Landon	Date Logged In:	07/18/24 08:33

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*3.4°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/17/24 11:27*

SATL#FO001
Revised 09/15/2022

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

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JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177212-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

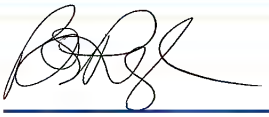
Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job Narrative
180-177212-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 7/18/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. There is a break in the coc with the client who would have orginaly elinquished the sample to the person, that would have received the sample, only showed relinquishing the samples. The intial time of relinquishing was not documented.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177212-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177212-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177212-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177212-1	2407261-01 (VHB001)	Water	07/17/24 09:40	07/18/24 10:00

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177212-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177212-1

Client Sample ID: 2407261-01 (VHB001)

Date Collected: 07/17/24 09:40
Date Received: 07/18/24 10:00

Lab Sample ID: 180-177212-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	474494	07/18/24 15:39	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			474809	07/23/24 15:49	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177212-1
Project/Site: Permit Analysis

Client Sample ID: 2407261-01 (VHB001)
Lab Sample ID: 180-177212-1
Date Collected: 07/17/24 09:40
Matrix: Water
Date Received: 07/18/24 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**30**		5.0	5.0	Color Units			07/18/24 15:39	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			07/18/24 15:39	1
pH at time of analysis (SM 2120B-2011)	**9.6**		0.10	0.10	SU			07/18/24 15:39	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			07/23/24 15:49	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177212-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-474494/1
Matrix: Water
Analysis Batch: 474494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			07/18/24 15:35	1
Color, True	ND		5.0	5.0	Color Units			07/18/24 15:35	1
pH at time of analysis	NA		0.10	0.10	SU			07/18/24 15:35	1

Lab Sample ID: 180-177212-1 DU
Matrix: Water
Analysis Batch: 474494

Client Sample ID: 2407261-01 (VHB001)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color, Apparent	30		30.0		Color Units		0	20
Color, True	10		10.0		Color Units		0	20
pH at time of analysis	9.6		9.61		SU		0	

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-474809/26
Matrix: Water
Analysis Batch: 474809

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			07/23/24 15:37	1

Lab Sample ID: LCS 180-474809/27
Matrix: Water
Analysis Batch: 474809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	49.5		ug/L		99	82 - 132

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177212-1

General Chemistry

Analysis Batch: 474494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177212-1	2407261-01 (VHB001)	Total/NA	Water	2120B-2011	
MB 180-474494/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-474494/2	Lab Control Sample	Total/NA	Water	2120B-2011	
180-177212-1 DU	2407261-01 (VHB001)	Total/NA	Water	2120B-2011	

Analysis Batch: 474809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177212-1	2407261-01 (VHB001)	Total/NA	Water	OIA - 1677	
MB 180-474809/26	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-474809/27	Lab Control Sample	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SAT	COMPANY SAT	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN Aimee Landon PHONE #	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ

DATA TO TCEQ ❑ RRC ❑ Other (Specify) ❑ Field pH._____, Temp _____ °C, LCS/D._____|_____, Dup._____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO
PROPER CONTAINERS INTACT ❑ YES ❑ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ❑ YES ❑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ / SAMPLE ICED ❑ YES ❑ NO
TRRP 13 ❑ APPENDIX A ❑
PST/PCLS ❑ SIM/LOW LEVEL ❑
TSDF Class 2 ❑ PERMIT ❑

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	PRESERVED WITH: HCl, HNO3, H2SO4, NaOH, ZnAc+NaOH, NaHSO4, None	REMARKS
1	7/17/24	0940	X									X			2407261-01 (VHB001)	2	250ml									Y	Y

CV available 01:Alw77
Low-down method 2120B 2011

180-177212 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
[signature]	7/17/24						
RELINQUISHED BY (PRINT NAME) Aimee Landon	DATE / TIME 1730	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE) [signature]	DATE / TIME 07/18/24 1000	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ❑ (Initial) 5035 ❑ N/A ❑		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO	

FORM. COC REV 09/2022 WHITE - LAB CANARY - CLIENT

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a scheduled Pickup
   - Your driver will pickup your shipment(s) as usual.

   Customers without a scheduled Pickup
   - Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
   - Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop I UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location neares please visit the 'Locations' Quick link at ups.com.

UPS Access Point™
CVS STORE # 10179
300 E COMMERCE ST
SAN ANTONIO TX 78205-2922

UPS Access Point™
ADVANCE AUTO PARTS STORE 5753
211 S ZARZAMORA ST
SAN ANTONIO TX 78207-4146

UPS Access Point™
ADVANCE AUTO PARTS STOR
2619 NOGALITOS
SAN ANTONIO TX 78225-1718

180-177212 Waybill

FOLD HERE

1 OF 1
14 LBS

MARCELA HAWK
210-229-9920
MARCELA HAWK
1610 S. LAREDO STREET
SAN ANTONIO TX 78207

SHIP TO:
SAMPLE RECEIVING
EUROFINS PITTSBURGH
301 ALPHA DRIVE RIDC PARK
PITTSBURGH PA 15238

PA 152 9-22

UPS NEXT DAY AIR 1

TRACKING #: 1Z 785 26E 01 9318 4799

Uncorrected temp 2.8 °C
Thermometer ID 26
-0.4
CF 26 Initials BC

PT-WI-SR-001 effective 11/8/18

BILLING: P/P

XOL 24.07.06 NV45 29.0A 07/2024*

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177212-1

Login Number: 177212
List Number: 1
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 20, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407262
RE: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/17/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

SAMPLE SUMMARY

Total Samples received in this work order: 1

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB Inlet	2407262-01	Liquid	Grab	07/17/24 09:15	07/17/24 11:27

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407262-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/17/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	81.0	mg/L	0.10	SM 5310C	B430154	07/20/24 01:32	SM5310C	DD	
Total Alkalinity *	396	mg/L as CaCO3	20.0	SM2320B	B431198	07/29/24 17:10	SM2320B	JA	
Ammonia-Nitrogen *	<1.00	mg/L	1.00	SM4500NH3B	B430191	07/23/24 12:35	SM4500NH3C	JA	
Total Kjeldahl Nitrogen *	3.36	mg/L	1.00	EPA 351.3	B430316	07/25/24 11:07	EPA 351.3	DD	
Total Organic Nitrogen	3.36	mg/L	1.00	[CALC]	[CALC]	07/25/24 11:07	CALC	DD	
Sulfide *	<100	ug/L	100	EPA 376.2	B431197	07/29/24 15:35	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B430311	07/18/24 15:30	SM5540C	SG	
Total Dissolved Solids *	1560	mg/L	5.00	SM2540C	B430269	07/23/24 17:04	SM2540C	DD	
Total Suspended Solids *	8.51	mg/L	5.56	SM2540D	B430227	07/23/24 18:05	SM2540D	DD	
COD *	71.5	mg/L	5.00	H8000	B431204	07/29/24 16:36	H8000	DD	
pH *	9.12	pH Units	0.01	SM4500HB	B429233	07/18/24 09:05	SM4500HB	JA	H
pH measured @Temperature >>	66.6	°F	0.100	SM4500HB	B429233	07/18/24 09:05	SM2550B	JA	H
BOD-5 *	4.56	mg/L	2.00	SM5210B	B430178	07/18/24 15:07	SM5210B	DD	
CBOD *	2.61	mg/L	2.00	SM5210B	B430179	07/22/24 15:06	SM5210B	DD	Za
Dissolved Oxygen *	9.71	mg/L	2.00	EPA 360.1	B429230	07/17/24 17:02	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B431179	07/29/24 10:35	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B431211	07/18/24 17:52	EPA 377.1	SG	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B429266	07/18/24 15:25	I-1230-85	SG	
Residual Chlorine *	0.02	mg/L	0.01	SM4500ClG	B429263	07/19/24 14:35	SM4500ClG	JA	
Total Phosphorous *	0.48	mg/L	0.05	EPA 365.3	B430188	07/22/24 14:10	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1170	ug/L	500	EPA 300.0	B430246	07/18/24 03:57	EPA 300.0	JA	Z
Chloride *	623	mg/L	5.00	EPA 300.0	B430246	07/18/24 05:08	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B430246	07/18/24 03:57	EPA 300.0	JA	
Bromide *	9060	ug/L	400	EPA 300.0	B430246	07/18/24 03:57	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B430246	07/18/24 05:08	EPA 300.0	JA	
Sulfate *	148	mg/L	5.00	EPA 300.0	B430246	07/18/24 05:08	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	07/18/24 05:08	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407262-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/17/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									
Aluminum *	44	ug/L	2	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Barium *	54	ug/L	3	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Boron *	984	ug/L	20	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Cobalt *	0.7	ug/L	0.3	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Copper *	4	ug/L	2	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Iron *	95	ug/L	7	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Lead *	0.6	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Magnesium *	4720	ug/L	20	EPA 200.8	B430276	07/26/24 18:21	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Molybdenum *	6	ug/L	1	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Nickel *	6	ug/L	2	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Thallium *	0.7	ug/L	0.5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Zinc *	10	ug/L	5	EPA 200.8	B430276	07/26/24 17:38	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	07/26/24 17:38	CALC	SG	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2407262-01**

Sample Matrix: Liquid **Date/Time Collected: 07/17/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B430203	07/25/24 22:32	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*57 %*	*18.3-110*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*56 %*	*15.6-80.4*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*37 %*	*2.8-70.6*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*50 %*	*8.98-84*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*30 %*	*1.11-63.5*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*72 %*	*8.46-114*		*EPA 3510C*	*B430203*	*07/25/24 22:32*	*EPA 625.1*	*ME*	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407262-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/17/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B430202	07/25/24 22:32	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*55 %*		*5-89.9*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*55 %*		*27-111*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*26 %*		*5-64.3*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*31 %*		*5-64.3*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*67 %*		*5-114*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*42 %*		*22-117*	*ASTM D7065-11*	*B430202*	*07/25/24 22:32*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B430242	07/25/24 16:15	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*64 %*		*15.3-112*	*EPA 608.3*	*B430242*	*07/25/24 16:15*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*40 %*		*10.2-92.4*	*EPA 608.3*	*B430242*	*07/25/24 16:15*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
1,3-Dichloropropylene [1,3-Dichloropro	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Acrolein *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Benzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Bromoform *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407262-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/17/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Chloroethane *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Chloroform *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	CL
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Toluene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B429241	07/18/24 19:25	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*91 %*		*80-106*	*EPA 624.1*	*B429241*	*07/18/24 19:25*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*95 %*		*83-118*	*EPA 624.1*	*B429241*	*07/18/24 19:25*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*100 %*		*91-109*	*EPA 624.1*	*B429241*	*07/18/24 19:25*	*EPA 624.1*	*TB*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 5030B	B429242	07/18/24 19:25	EPA 624.1	TB	
Bromoform *	<2.50	ug/L	2.50	EPA 5030B	B429242	07/18/24 19:25	EPA 624.1	TB	
Chloroform *	<2.50	ug/L	2.50	EPA 5030B	B429242	07/18/24 19:25	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 5030B	B429242	07/18/24 19:25	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	EPA 5030B	B429242	07/18/24 19:25	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	07/18/24 19:25	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*91 %*		*65.7-120*	*EPA 5030B*	*B429242*	*07/18/24 19:25*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*95 %*		*81.2-126*	*EPA 5030B*	*B429242*	*07/18/24 19:25*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*100 %*		*87.4-109*	*EPA 5030B*	*B429242*	*07/18/24 19:25*	*EPA 624.1*	*TB*	

CPS Energy - Environmental Dept.
P.O. Box 1771
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429230 - EPA 360.1										
Duplicate (B429230-DUP1)		**Source: 2407261-01**		Prepared: 07/17/24 17:00		Analyzed: 07/17/24 17:01				
Dissolved Oxygen	9.90	2.00	mg/L		10.0			1	20	H, UA
Batch B429233 - SM4500HB										
LCS (B429233-BS1)				Prepared: 07/18/24 09:00		Analyzed: 07/18/24 09:00				
pH	7.06	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	19.7	0.100	°F				0-200			
Duplicate (B429233-DUP1)		**Source: 2407287-01**		Prepared: 07/18/24 09:00		Analyzed: 07/18/24 09:07				
pH	7.86	0.01	pH Units		7.84			0.3	20	H
pH measured @Temperature >>	19.6	0.100	°F		19.6			0	30	H
Batch B429263 - SM4500ClG										
Blank (B429263-BLK1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B429263-BS1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	0.263	0.01	mg/L	0.250		105	80-120			
LCS Dup (B429263-BSD1)				Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:28				
Residual Chlorine	0.266	0.01	mg/L	0.250		106	80-120	1	20	
Duplicate (B429263-DUP1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.0230	0.01	mg/L		0.0210			9	20	
Matrix Spike (B429263-MS1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.123	0.01	mg/L	0.250	0.0210	41	80-120			M
Matrix Spike Dup (B429263-MSD1)		**Source: 2407262-01**		Prepared: 07/17/24 14:00		Analyzed: 07/19/24 14:40				
Residual Chlorine	0.116	0.01	mg/L	0.250	0.0210	38	80-120	6	20	M
Batch B429266 - I-1230-85										
Blank (B429266-BLK1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				
Hexavalent Chromium	<3	3	ug/L							
LCS (B429266-BS1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				
Hexavalent Chromium	429	3	ug/L	400		107	90-110			
LCS Dup (B429266-BSD1)				Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:20				

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Project: VHB Priority Pollutants
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12/20/24 10:16
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Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429266 - I-1230-85										
Hexavalent Chromium	417	3	ug/L	400		104	90-110	3	20	
Duplicate (B429266-DUP1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	<3	3	ug/L		<3				20	
Matrix Spike (B429266-MS1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	430	3	ug/L	400	<3	108	80-120			
Matrix Spike Dup (B429266-MSD1)		**Source: 2407262-01**		Prepared: 07/18/24 15:00		Analyzed: 07/18/24 15:30				
Hexavalent Chromium	421	3	ug/L	400	<3	105	80-120	2	20	
Batch B430154 - SM 5310C										
Blank (B430154-BLK1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 18:55				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B430154-BS1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 19:22				
Total Organic Carbon	4.28	0.10	mg/L	5.00		86	80-120			
LCS Dup (B430154-BSD1)				Prepared: 07/19/24 12:00		Analyzed: 07/19/24 19:48				
Total Organic Carbon	4.12	0.10	mg/L	5.00		82	80-120	4	20	
Duplicate (B430154-DUP1)		**Source: 2407195-01**		Prepared: 07/19/24 12:00		Analyzed: 07/19/24 20:50				
Total Organic Carbon	13.0	0.10	mg/L		12.8			2	20	
Matrix Spike (B430154-MS1)		**Source: 2407195-01**		Prepared: 07/19/24 12:00		Analyzed: 07/20/24 00:34				
Total Organic Carbon	13.9	0.10	mg/L	5.00	12.8	22	70-130			M
Batch B430178 - SM5210B										
Blank (B430178-BLK1)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:00				
BOD-5	<2.00	2.00	mg/L							
LCS (B430178-BS1)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:01				
BOD-5	170	2.00	mg/L	200		85	80-120			
LCS (B430178-BS2)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:02				
BOD-5	185	2.00	mg/L	200		92	80-120			
LCS (B430178-BS3)				Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:03				
BOD-5	185	2.00	mg/L	200		92	80-120			
Duplicate (B430178-DUP1)		**Source: 2407238-01**		Prepared: 07/17/24 17:00		Analyzed: 07/18/24 15:05				

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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

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12/20/24 10:16
Received:
07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430178 - SM5210B										
BOD-5	38.6	2.00	mg/L		36.5			6	20	
Batch B430179 - SM5210B										
Blank (B430179-BLK1)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:00						
CBOD	<2.00	2.00	mg/L							Za
LCS (B430179-BS1)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:02						
CBOD	170	2.00	mg/L	200		85	80-120			Za
LCS (B430179-BS2)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:03						
CBOD	185	2.00	mg/L	200		92	80-120			Za
LCS (B430179-BS3)				Prepared: 07/17/24 18:55 Analyzed: 07/22/24 15:04						
CBOD	185	2.00	mg/L	200		92	80-120			Za
Batch B430188 - EPA 365.3										
Blank (B430188-BLK1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B430188-BS1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	0.454	0.05	mg/L	0.500		91	80-120			
LCS Dup (B430188-BSD1)				Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:00						
Total Phosphorous	0.456	0.05	mg/L	0.500		91	80-120	0.4	20	
Duplicate (B430188-DUP1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.481	0.05	mg/L		0.493			2	20	
Matrix Spike (B430188-MS1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.682	0.05	mg/L	0.500	0.493	38	80-120			M
Matrix Spike Dup (B430188-MSD1)		**Source: 2407261-01**		Prepared: 07/22/24 11:00 Analyzed: 07/22/24 14:20						
Total Phosphorous	0.684	0.05	mg/L	0.500	0.493	38	80-120	0.3	20	M
Batch B430191 - SM4500NH3B										
Blank (B430191-BLK1)				Prepared: 07/23/24 10:00 Analyzed: 07/23/24 12:05						
Ammonia-Nitrogen	<1.00	1.00	mg/L							
LCS (B430191-BS1)				Prepared: 07/23/24 10:00 Analyzed: 07/23/24 12:10						

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430191 - SM4500NH3B									
LCS (B430191-BS1)				Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:10			
Ammonia-Nitrogen	18.5	1.00	mg/L	20.0		92	80-120		
LCS Dup (B430191-BSD1)				Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:15			
Ammonia-Nitrogen	18.5	1.00	mg/L	20.0		92	80-120	0	20
Duplicate (B430191-DUP1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:40			
Ammonia-Nitrogen	<1.00	1.00	mg/L		<1.00				20
Matrix Spike (B430191-MS1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:45			
Ammonia-Nitrogen	19.6	1.00	mg/L	20.0	<1.00	98	80-120		
Matrix Spike Dup (B430191-MSD1)		**Source: 2407262-01**		Prepared: 07/23/24 10:00		Analyzed: 07/23/24 12:50			
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0	<1.00	101	80-120	3	200
Batch B430227 - SM2540D									
Blank (B430227-BLK1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:01			
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B430227-BS1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:02			
Total Suspended Solids	9.87	2.50	mg/L	10.0		99	80-120		
LCS Dup (B430227-BSD1)				Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:03			
Total Suspended Solids	10.2	2.50	mg/L	10.0		102	80-120	4	20
Duplicate (B430227-DUP1)		**Source: 2407261-01**		Prepared: 07/23/24 17:00		Analyzed: 07/23/24 18:04			
Total Suspended Solids	10.9	7.14	mg/L		10.7			2	20
Batch B430269 - SM2540C									
Blank (B430269-BLK1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B430269-BS1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	100	2.50	mg/L	100		100	80-120		
LCS Dup (B430269-BSD1)				Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	103	2.50	mg/L	100		103	80-120	3	20
Duplicate (B430269-DUP1)		**Source: 2407262-01**		Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430269 - SM2540C									
Duplicate (B430269-DUP1)		**Source: 2407262-01**		Prepared: 07/22/24 13:00		Analyzed: 07/23/24 17:04			
Total Dissolved Solids	1520	5.00	mg/L		1560			2	20
Batch B430311 - SM5540 C									
Blank (B430311-BLK1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B430311-BS1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120		
LCS Dup (B430311-BSD1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120	0	20
Duplicate (B430311-DUP1)		**Source: 2407261-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 15:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20
Batch B430316 - EPA 351.3									
Blank (B430316-BLK1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:00			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B430316-BS1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:01			
Total Kjeldahl Nitrogen	16.2	1.00	mg/L	20.0		81	80-120		
LCS Dup (B430316-BSD1)				Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:02			
Total Kjeldahl Nitrogen	16.2	1.00	mg/L	20.0		81	80-120	0	20
Duplicate (B430316-DUP1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:03			
Total Kjeldahl Nitrogen	4.48	1.00	mg/L		5.04			12	20
Matrix Spike (B430316-MS1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:04			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	5.04	81	80-120		
Matrix Spike Dup (B430316-MSD1)		**Source: 2407261-01**		Prepared: 07/24/24 11:00		Analyzed: 07/25/24 11:05			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	5.04	81	80-120	0	20
Batch B431179 - EPA 1664A									

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431179 - EPA 1664A									
Blank (B431179-BLK1)				Prepared: 07/26/24 10:00 Analyzed: 07/29/24 10:30					
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B431179-BS1)				Prepared: 07/26/24 10:00 Analyzed: 07/29/24 10:31					
Oil & Grease (HEM)	33.6	4.75	mg/L	40.0		84	78-114		
LCS Dup (B431179-BSD1)				Prepared: 07/26/24 10:00 Analyzed: 07/29/24 10:32					
Oil & Grease (HEM)	33.7	4.75	mg/L	40.0		84	78-114	0.3	18
Matrix Spike (B431179-MS1)		**Source: 2407277-06**		Prepared: 07/26/24 10:00 Analyzed: 07/29/24 10:33					
Oil & Grease (HEM)	34.5	4.75	mg/L	40.0	3.00	79	78-114		
Matrix Spike (B431179-MS2)		**Source: 2407277-06**		Prepared: 07/26/24 10:00 Analyzed: 07/29/24 10:34					
Oil & Grease (HEM)	41.5	4.75	mg/L	40.0	3.00	96	78-114		
Batch B431197 - EPA 376.2									
Blank (B431197-BLK1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	<100	100	ug/L						
LCS (B431197-BS1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	91.0	100	ug/L	100		91	80-120		
LCS Dup (B431197-BSD1)				Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:30					
Sulfide	97.0	100	ug/L	100		97	80-120	6	20
Duplicate (B431197-DUP1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B431197-MS1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	100	100	ug/L	100	<100	100	70-130		
Matrix Spike Dup (B431197-MSD1)		**Source: 2407261-01**		Prepared: 07/22/24 15:00 Analyzed: 07/29/24 15:45					
Sulfide	93.0	100	ug/L	100	<100	93	70-130	7	30
Batch B431198 - SM2320B									
Blank (B431198-BLK1)				Prepared: 07/26/24 15:00 Analyzed: 07/29/24 15:00					
Total Alkalinity	<20.0	20.0	mg/L as CaCO3						
LCS (B431198-BS1)				Prepared: 07/26/24 15:00 Analyzed: 07/29/24 15:05					

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431198 - SM2320B									
LCS (B431198-BS1)				Prepared: 07/26/24 15:00		Analyzed: 07/29/24 15:05			
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120		
LCS Dup (B431198-BSD1)				Prepared: 07/26/24 15:00		Analyzed: 07/29/24 15:10			
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120	4	20
Duplicate (B431198-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 15:00		Analyzed: 07/29/24 17:20			
Total Alkalinity	380	20.0	mg/L as CaCO3		396			4	20
Batch B431204 - H8000									
Blank (B431204-BLK1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	<5.00	5.00	mg/L						
LCS (B431204-BS1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	53.9	5.00	mg/L	50.0		108	80-120		
LCS Dup (B431204-BSD1)				Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	47.9	5.00	mg/L	50.0		96	80-120	12	20
Matrix Spike (B431204-MS1)		**Source: 2407277-02**		Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	83.2	5.00	mg/L	50.0	29.2	108	80-120		
Matrix Spike Dup (B431204-MSD1)		**Source: 2407277-02**		Prepared: 07/29/24 16:35		Analyzed: 07/29/24 16:36			
COD	84.2	5.00	mg/L	50.0	29.2	110	80-120	1	20
Batch B431211 - SM4500-SO3(B)									
Blank (B431211-BLK1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:35			
Sulfite	<1000	1000	ug/L						
LCS (B431211-BS1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:38			
Sulfite	9000	1000	ug/L	10000		90	80-120		
LCS Dup (B431211-BSD1)				Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:40			
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20
Duplicate (B431211-DUP1)		**Source: 2407261-01**		Prepared: 07/18/24 17:00		Analyzed: 07/18/24 17:42			
Sulfite	<1000	1000	ug/L		<1000				20

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430246 - EPA 300.0										
Blank (B430246-BLK1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:14						
Fluoride	<500	500	ug/L							
Chloride	<0.100	0.100	mg/L							
Nitrite as N	<100	100	ug/L							
Bromide	<400	400	ug/L							
Nitrate as N	<0.100	0.100	mg/L							
Sulfate	<0.10	0.10	mg/L							
LCS (B430246-BS1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:32						
Fluoride	1030	500	ug/L	1000		103	90-110			
Chloride	4.98	0.100	mg/L	5.00		100	90-110			
Nitrite as N	4710	100	ug/L	5000		94	90-110			
Bromide	4520	400	ug/L	5000		90	90-110			
Nitrate as N	5.08	0.100	mg/L	5.00		102	90-110			
Sulfate	5.08	0.10	mg/L	5.00		102	90-110			
LCS Dup (B430246-BSD1)				Prepared: 07/17/24 16:00 Analyzed: 07/17/24 17:49						
Fluoride	1010	500	ug/L	1000		101	90-110	2	20	
Chloride	4.97	0.100	mg/L	5.00		99	90-110	0.1	20	
Nitrite as N	4730	100	ug/L	5000		95	90-110	0.4	20	
Bromide	4500	400	ug/L	5000		90	90-110	0.4	20	
Nitrate as N	5.08	0.100	mg/L	5.00		102	90-110	0.01	20	
Sulfate	5.07	0.10	mg/L	5.00		101	90-110	0.2	20	
Duplicate (B430246-DUP1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 22:00						
Fluoride	188	500	ug/L		189			0.2	20	
Chloride	1680	25.0	mg/L		1700			1	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	5130	400	ug/L		5150			0.5	20	
Nitrate as N	0.190	0.100	mg/L		0.202			6	20	
Sulfate	2800	25.0	mg/L		2850			2	20	
Matrix Spike (B430246-MS1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 22:53						
Fluoride	1090	500	ug/L	1000	189	90	80-120			
Chloride	575	0.100	mg/L	5.00	1700	NR	80-120			M
Nitrite as N	2850	100	ug/L	5000	<100	57	80-120			M
Bromide	9660	400	ug/L	5000	5150	90	80-120			
Nitrate as N	5.23	0.100	mg/L	5.00	0.202	100	80-120			
Sulfate	4100	0.10	mg/L	5.00	2850	NR	80-120			M

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430246 - EPA 300.0										
Matrix Spike Dup (B430246-MSD1)		**Source: 2407247-04**		Prepared: 07/17/24 16:00 Analyzed: 07/17/24 23:11						
Fluoride	1100	500	ug/L	1000	189	92	80-120	2	20	
Chloride	575	0.100	mg/L	5.00	1700	NR	80-120	0.004	20	M
Nitrite as N	2880	100	ug/L	5000	<100	58	80-120	1	20	M
Bromide	9750	400	ug/L	5000	5150	92	80-120	0.9	20	
Nitrate as N	5.30	0.100	mg/L	5.00	0.202	102	80-120	1	20	
Sulfate	4100	0.10	mg/L	5.00	2850	NR	80-120	0.02	20	M

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:10						
Aluminum	<2	2	ug/L							
Antimony	<5	5	ug/L							
Barium	<3	3	ug/L							
Beryllium	<0.5	0.5	ug/L							
Boron	<20	20	ug/L							
Cadmium	<1	1	ug/L							
Chromium	<3	3	ug/L							
Cobalt	<0.3	0.3	ug/L							
Copper	<2	2	ug/L							
Iron	<7	7	ug/L							
Lead	<0.5	0.5	ug/L							
Magnesium	<20	20	ug/L							
Manganese	<0.5	0.5	ug/L							
Molybdenum	<1	1	ug/L							
Nickel	<2	2	ug/L							
Silver	<0.5	0.5	ug/L							
Thallium	<0.5	0.5	ug/L							
Tin	<5	5	ug/L							
Titanium	<30	30	ug/L							
Zinc	<5	5	ug/L							

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
LCS (B430276-BS1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:17					
Aluminum	963	2	ug/L	1000		96	85-115		
Antimony	104	5	ug/L	100		104	85-115		
Barium	98.2	3	ug/L	100		98	85-115		
Beryllium	96.5	0.5	ug/L	100		97	85-115		
Boron	98.4	20	ug/L	100		98	85-115		
Cadmium	98.6	1	ug/L	100		99	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.4	0.3	ug/L	100		99	85-115		
Copper	96.7	2	ug/L	100		97	85-115		
Iron	931	7	ug/L	1000		93	85-115		
Lead	98.0	0.5	ug/L	100		98	85-115		
Magnesium	965	20	ug/L	1000		97	85-115		
Manganese	96.2	0.5	ug/L	100		96	85-115		
Molybdenum	96.6	1	ug/L	100		97	85-115		
Nickel	100	2	ug/L	100		100	85-115		
Silver	86.8	0.5	ug/L	100		87	85-115		
Thallium	96.1	0.5	ug/L	100		96	85-115		
Tin	98.2	5	ug/L	100		98	85-115		
Titanium	96.6	30	ug/L	100		97	85-115		
Zinc	97.0	5	ug/L	100		97	85-115		
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:20					
Aluminum	976	2	ug/L	1000		98	85-115	1	20
Antimony	104	5	ug/L	100		104	85-115	0.3	20
Barium	98.6	3	ug/L	100		99	85-115	0.4	20
Beryllium	97.7	0.5	ug/L	100		98	85-115	1	20
Boron	99.8	20	ug/L	100		100	85-115	2	20
Cadmium	98.2	1	ug/L	100		98	85-115	0.4	20
Chromium	99.5	3	ug/L	100		99	85-115	2	20
Cobalt	100	0.3	ug/L	100		100	85-115	1	20
Copper	97.5	2	ug/L	100		97	85-115	0.9	20
Iron	952	7	ug/L	1000		95	85-115	2	20
Lead	100	0.5	ug/L	100		100	85-115	2	20
Magnesium	976	20	ug/L	1000		98	85-115	1	20
Manganese	98.2	0.5	ug/L	100		98	85-115	2	20
Molybdenum	98.8	1	ug/L	100		99	85-115	2	20

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 1)

Reported:
12/20/24 10:16
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07/17/24 11:27

Additional Notes:
This supersedes the last report (2407262 1-SATL1 FINAL 08 07 24 1906) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407262

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:20				
Nickel	99.6	2	ug/L	100		100	85-115	0.8	20	
Silver	90.8	0.5	ug/L	100		91	85-115	4	20	
Thallium	99.0	0.5	ug/L	100		99	85-115	3	20	
Tin	99.0	5	ug/L	100		99	85-115	0.8	20	
Titanium	98.2	30	ug/L	100		98	85-115	2	20	
Zinc	98.8	5	ug/L	100		99	85-115	2	20	
Duplicate (B430276-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:27				
Aluminum	35.5	2	ug/L		31.9			11	20	
Antimony	<5	5	ug/L		<5				20	
Barium	52.6	3	ug/L		52.6			0.07	20	
Beryllium	<0.5	0.5	ug/L		<0.5				20	
Boron	967	20	ug/L		987			2	20	
Cadmium	<1	1	ug/L		<1				20	
Chromium	<3	3	ug/L		<3				20	
Cobalt	0.343	0.3	ug/L		0.352			2	20	
Copper	2.32	2	ug/L		2.30			0.9	20	
Iron	111	7	ug/L		101			9	20	
Lead	0.0947	0.5	ug/L		0.103			8	20	
Magnesium	49700	20	ug/L		19600			87	20	S
Manganese	6.20	0.5	ug/L		6.17			0.4	20	
Molybdenum	4.26	1	ug/L		4.66			9	20	
Nickel	5.62	2	ug/L		5.60			0.4	20	
Silver	0.0552	0.5	ug/L		0.221			120	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	3.59	30	ug/L		2.59			32	20	S
Zinc	8.51	5	ug/L		9.22			8	20	
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:31				
Aluminum	1010	2	ug/L	1000	31.9	98	75-125			
Antimony	117	5	ug/L	100	<5	117	75-125			
Barium	156	3	ug/L	100	52.6	103	75-125			
Beryllium	90.7	0.5	ug/L	100	<0.5	91	75-125			
Boron	1040	20	ug/L	100	987	48	75-125			M
Cadmium	102	1	ug/L	100	<1	102	75-125			

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:31				
Chromium	93.3	3	ug/L	100	<3	93	75-125			
Cobalt	92.8	0.3	ug/L	100	0.352	92	75-125			
Copper	88.3	2	ug/L	100	2.30	86	75-125			
Iron	960	7	ug/L	1000	101	86	75-125			
Lead	107	0.5	ug/L	100	0.103	107	75-125			
Magnesium	49200	20	ug/L	1000	19600	NR	75-125			M
Manganese	95.8	0.5	ug/L	100	6.17	90	75-125			
Molybdenum	106	1	ug/L	100	4.66	101	75-125			
Nickel	93.5	2	ug/L	100	5.60	88	75-125			
Silver	97.0	0.5	ug/L	100	0.221	97	75-125			
Thallium	112	0.5	ug/L	100	<0.5	112	75-125			
Tin	106	5	ug/L	100	<5	106	75-125			
Titanium	101	30	ug/L	100	2.59	98	75-125			
Zinc	104	5	ug/L	100	9.22	95	75-125			
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:35				
Aluminum	1000	2	ug/L	1000	31.9	97	75-125	0.9	20	
Antimony	114	5	ug/L	100	<5	114	75-125	3	20	
Barium	151	3	ug/L	100	52.6	99	75-125	3	20	
Beryllium	90.6	0.5	ug/L	100	<0.5	91	75-125	0.07	20	
Boron	1030	20	ug/L	100	987	46	75-125	0.2	20	M
Cadmium	99.7	1	ug/L	100	<1	100	75-125	2	20	
Chromium	92.5	3	ug/L	100	<3	93	75-125	0.9	20	
Cobalt	92.7	0.3	ug/L	100	0.352	92	75-125	0.01	20	
Copper	89.0	2	ug/L	100	2.30	87	75-125	0.7	20	
Iron	957	7	ug/L	1000	101	86	75-125	0.4	20	
Lead	107	0.5	ug/L	100	0.103	107	75-125	0.6	20	
Magnesium	47600	20	ug/L	1000	19600	NR	75-125	3	20	M
Manganese	95.7	0.5	ug/L	100	6.17	89	75-125	0.1	20	
Molybdenum	105	1	ug/L	100	4.66	100	75-125	0.7	20	
Nickel	94.1	2	ug/L	100	5.60	88	75-125	0.6	20	
Silver	95.9	0.5	ug/L	100	0.221	96	75-125	1	20	
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	2	20	
Tin	103	5	ug/L	100	<5	103	75-125	3	20	
Titanium	99.9	30	ug/L	100	2.59	97	75-125	0.7	20	
Zinc	103	5	ug/L	100	9.22	94	75-125	0.5	20	

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Report No. 2407262

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Blank (B430203-BLK1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:32						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							CL
Chrysene	<5	5	ug/L							CL
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*114*		*ug/L*	*200*		*57*	*18.3-110*			

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Report No. 2407262

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Blank (B430203-BLK1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:32						
Surrogate: 2-Fluorobiphenyl	*50.4*		*ug/L*	*100*		*50*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*78.0*		*ug/L*	*200*		*39*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*46.6*		*ug/L*	*100*		*47*	*8.98-84*			
Surrogate: Phenol-d5	*60.6*		*ug/L*	*200*		*30*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*77.1*		*ug/L*	*100*		*77*	*8.46-114*			
LCS (B430203-BS1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:53						
1,2,4,5-Tetrachlorobenzene	52.9	20	ug/L	80.0		66	0.449-117			
2,4,5-Trichlorophenol	53.1	50	ug/L	80.0		66	20-108			
2,4,6-Trichlorophenol	54.8	10	ug/L	80.0		68	37-144			
2,4-Dichlorophenol	47.0	10	ug/L	80.0		59	39-135			
2,4-Dimethylphenol	58.6	10	ug/L	80.0		73	32-119			
2,4-Dinitrophenol	82.4	50	ug/L	80.0		103	5-191			CH
2-Chlorophenol	44.5	10	ug/L	80.0		56	23-134			
o-Cresol	46.3	10	ug/L	80.0		58	8-87			
2-Nitrophenol	66.2	20	ug/L	80.0		83	29-182			
3,3´-Dichlorobenzidine	58.6	5	ug/L	80.0		73	4.34-262			
m-Cresol & p-Cresol	47.1	10	ug/L	80.0		59	6-85			
4,6-Dinitro-o-cresol	90.8	50	ug/L	80.0		114	5-181			CH
p-Chloro-m-cresol	50.6	10	ug/L	80.0		63	22-147			
4-Nitrophenol	48.0	50	ug/L	80.0		60	5-132			
Anthracene	53.4	10	ug/L	80.0		67	27-133			
Benz(a)anthracene	54.6	5	ug/L	80.0		68	33-143			
Benzidine	70.8	50	ug/L	80.0		88	5-73			L
Benzo(a)pyrene	60.4	5	ug/L	80.0		76	17-163			
Bis(2-Chloroethyl)ether	33.7	10	ug/L	80.0		42	12-158			CL
Bis(2-Ethylhexyl)phthalate	54.0	10	ug/L	80.0		68	8-158			CL
Chrysene	43.4	5	ug/L	80.0		54	17-168			CL
Di-n-butylphthalate	49.9	10	ug/L	80.0		62	1-118			
Hexachlorobenzene	54.4	5	ug/L	80.0		68	5-152			
Hexachlorobutadiene	29.3	10	ug/L	80.0		37	24-116			
Hexachlorocyclopentadiene	28.0	10	ug/L	80.0		35	12-69			
Hexachloroethane	24.6	20	ug/L	80.0		31	40-113			L
Nitrobenzene	46.4	10	ug/L	80.0		58	35-180			
N-Nitrosodiethylamine	41.3	20	ug/L	80.0		52	-2.55-178			
N-Nitrosodi-n-butylamine	41.2	20	ug/L	80.0		52	-4.28-193			

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Report No. 2407262

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
LCS (B430203-BS1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 17:53						
Pentachlorobenzene	52.9	20	ug/L	80.0		66	-1.08-131			
Pentachlorophenol	64.7	5	ug/L	80.0		81	14-176			
Phenanthrene	49.3	10	ug/L	80.0		62	54-120			
Phenol	28.3	10	ug/L	80.0		35	5-112			
Pyridine	30.4	20	ug/L	80.0		38	5-73			
Surrogate: 2,4,6-Tribromophenol	*158*		*ug/L*	*200*		*79*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*61.5*		*ug/L*	*100*		*62*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*93.8*		*ug/L*	*200*		*47*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*65.5*		*ug/L*	*100*		*66*	*8.98-84*			
Surrogate: Phenol-d5	*71.4*		*ug/L*	*200*		*36*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.6*		*ug/L*	*100*		*86*	*8.46-114*			
LCS Dup (B430203-BSD1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 18:14						
1,2,4,5-Tetrachlorobenzene	56.1	20	ug/L	80.0		70	0.449-117	6	25.7	
2,4,5-Trichlorophenol	56.8	50	ug/L	80.0		71	20-108	7	64	
2,4,6-Trichlorophenol	56.0	10	ug/L	80.0		70	37-144	2	67	
2,4-Dichlorophenol	46.9	10	ug/L	80.0		59	39-135	0.1	70	
2,4-Dimethylphenol	56.7	10	ug/L	80.0		71	32-119	3	72	
2,4-Dinitrophenol	84.6	50	ug/L	80.0		106	5-191	3	142	CH
2-Chlorophenol	42.3	10	ug/L	80.0		53	23-134	5	67	
o-Cresol	42.7	10	ug/L	80.0		53	8-87	8	59	
2-Nitrophenol	65.3	20	ug/L	80.0		82	29-182	1	66	
3,3´-Dichlorobenzidine	61.6	5	ug/L	80.0		77	4.34-262	5	50	
m-Cresol & p-Cresol	45.8	10	ug/L	80.0		57	6-85	3	63	
4,6-Dinitro-o-cresol	93.7	50	ug/L	80.0		117	5-181	3	88	CH
p-Chloro-m-cresol	51.1	10	ug/L	80.0		64	22-147	0.9	66	
4-Nitrophenol	50.2	50	ug/L	80.0		63	5-132	4	84	
Anthracene	54.7	10	ug/L	80.0		68	27-133	2	64	
Benz(a)anthracene	54.6	5	ug/L	80.0		68	33-143	0.04	65	
Benzidine	66.1	50	ug/L	80.0		83	5-73	7	87	L
Benzo(a)pyrene	61.0	5	ug/L	80.0		76	17-163	1	69	
Bis(2-Chloroethyl)ether	33.8	10	ug/L	80.0		42	12-158	0.3	40	CL
Bis(2-Ethylhexyl)phthalate	55.7	10	ug/L	80.0		70	8-158	3	72	CL
Chrysene	51.4	5	ug/L	80.0		64	17-168	17	65	CL
Di-n-butylphthalate	51.6	10	ug/L	80.0		65	1-118	3	68	
Hexachlorobenzene	54.0	5	ug/L	80.0		68	5-152	0.7	69	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
LCS Dup (B430203-BSD1)				Prepared: 07/23/24 15:26 Analyzed: 07/23/24 18:14						
Hexachlorobutadiene	38.1	10	ug/L	80.0		48	24-116	26	49	
Hexachlorocyclopentadiene	43.1	10	ug/L	80.0		54	12-69	43	65	
Hexachloroethane	34.6	20	ug/L	80.0		43	40-113	34	42	
Nitrobenzene	44.4	10	ug/L	80.0		55	35-180	4	41	
N-Nitrosodiethylamine	42.6	20	ug/L	80.0		53	-2.55-178	3	29	
N-Nitrosodi-n-butylamine	46.7	20	ug/L	80.0		58	-4.28-193	12	37.8	
Pentachlorobenzene	58.8	20	ug/L	80.0		74	-1.08-131	11	25.5	
Pentachlorophenol	65.9	5	ug/L	80.0		82	14-176	2	50	
Phenanthrene	49.3	10	ug/L	80.0		62	54-120	0.1	66	
Phenol	27.0	10	ug/L	80.0		34	5-112	5	69	
Pyridine	27.7	20	ug/L	80.0		35	5-73	9	36	
Surrogate: 2,4,6-Tribromophenol	*157*		*ug/L*	*200*		*79*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*63.5*		*ug/L*	*100*		*64*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*86.4*		*ug/L*	*200*		*43*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*63.0*		*ug/L*	*100*		*63*	*8.98-84*			
Surrogate: Phenol-d5	*69.3*		*ug/L*	*200*		*35*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.0*		*ug/L*	*100*		*85*	*8.46-114*			
Matrix Spike (B430203-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57						
1,2,4,5-Tetrachlorobenzene	83.7	20	ug/L	160	<20	52	26.5-68.5			
2,4,5-Trichlorophenol	99.9	50	ug/L	160	<50	62	44.1-94.9			
2,4,6-Trichlorophenol	95.1	10	ug/L	160	<10	59	42.8-89.7			
2,4-Dichlorophenol	79.1	10	ug/L	160	<10	49	42.7-83.2			
2,4-Dimethylphenol	95.5	10	ug/L	160	<10	60	35.5-84.8			
2,4-Dinitrophenol	165	50	ug/L	160	<50	103	12.9-135			CH
2-Chlorophenol	72.8	10	ug/L	160	<10	46	42.6-73.1			
o-Cresol	74.4	10	ug/L	160	<10	46	45.4-61.4			
2-Nitrophenol	110	20	ug/L	160	<20	68	45.6-74.3			
3,3´-Dichlorobenzidine	104	5	ug/L	160	<5	65	25-203			
m-Cresol & p-Cresol	78.3	10	ug/L	160	<10	49	3-75			
4,6-Dinitro-o-cresol	178	50	ug/L	160	<50	111	26.6-112			CH
p-Chloro-m-cresol	88.8	10	ug/L	160	<10	55	32.5-89.3			
4-Nitrophenol	95.0	50	ug/L	160	<50	59	8-58			M
Anthracene	99.0	10	ug/L	160	<10	62	50.1-92.2			
Benz(a)anthracene	102	5	ug/L	160	<5	63	36.3-111			
Benzidine	66.8	50	ug/L	160	<50	42	15-150			

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Report No. 2407262

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430203 - EPA 3510C										
Matrix Spike (B430203-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57						
Benzo(a)pyrene	113	5	ug/L	160	<5	71	27.5-124			
Bis(2-Chloroethyl)ether	55.2	10	ug/L	160	<10	35	38.3-70.8			CL M
Bis(2-Ethylhexyl)phthalate	104	10	ug/L	160	<10	65	13.2-168			CL
Chrysene	98.5	5	ug/L	160	<5	62	40.6-101			CL
Di-n-butylphthalate	97.5	10	ug/L	160	<10	61	27.4-123			
Hexachlorobenzene	98.8	5	ug/L	160	<5	62	49.6-94.3			
Hexachlorobutadiene	60.6	10	ug/L	160	<10	38	44-74.7			M
Hexachlorocyclopentadiene	64.2	10	ug/L	160	<10	40	47.3-73			M
Hexachloroethane	52.0	20	ug/L	160	<20	33	37.1-86.8			M
Nitrobenzene	75.8	10	ug/L	160	<10	47	42.3-89.2			
N-Nitrosodiethylamine	67.8	20	ug/L	160	<20	42	37.4-148			
N-Nitrosodi-n-butylamine	71.8	20	ug/L	160	<20	45	39.8-163			
Pentachlorobenzene	94.2	20	ug/L	160	<20	59	31.6-77.8			
Pentachlorophenol	128	5	ug/L	160	<5	80	31-117			
Phenanthrene	90.1	10	ug/L	160	<10	56	48.4-95.5			
Phenol	49.2	10	ug/L	160	<10	31	6-39			
Pyridine	53.1	20	ug/L	160	<20	33	4-58			
Surrogate: 2,4,6-Tribromophenol	*280*		*ug/L*	*400*		*70*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*200*		*53*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*149*		*ug/L*	*400*		*37*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*102*		*ug/L*	*200*		*51*	*8.98-84*			
Surrogate: Phenol-d5	*125*		*ug/L*	*400*		*31*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*159*		*ug/L*	*200*		*79*	*8.46-114*			

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430202 - ASTM D7065-11									
Blank (B430202-BLK1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:32					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*110*		*ug/L*	*200*		*55*	*5-89.9*		
Surrogate: Phenol-d5	*52.8*		*ug/L*	*200*		*26*	*5-64.3*		

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Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430202 - ASTM D7065-11									
Blank (B430202-BLK1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:32					
Surrogate: 2-Fluorobiphenyl	*49.7*		*ug/L*	*100*		*50*	*27-111*		
Surrogate: Terphenyl-d14	*71.6*		*ug/L*	*100*		*72*	*5-114*		
Surrogate: 2-Fluorophenol	*65.6*		*ug/L*	*200*		*33*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*38.9*		*ug/L*	*100*		*39*	*22-117*		
LCS (B430202-BS1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 17:53					
Nonylphenol	300	333	ug/L	500		60	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*154*		*ug/L*	*200*		*77*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*60.7*		*ug/L*	*100*		*61*	*27-111*		
Surrogate: Phenol-d5	*62.2*		*ug/L*	*200*		*31*	*5-64.3*		
Surrogate: 2-Fluorophenol	*78.8*		*ug/L*	*200*		*39*	*5-64.3*		
Surrogate: Terphenyl-d14	*79.5*		*ug/L*	*100*		*80*	*5-114*		
Surrogate: Nitrobenzene-d5	*54.6*		*ug/L*	*100*		*55*	*22-117*		
LCS Dup (B430202-BSD1)				Prepared: 07/23/24 12:00 Analyzed: 07/23/24 18:14					
Nonylphenol	299	333	ug/L	500		60	32.3-103	0.3	21.4
Surrogate: 2,4,6-Tribromophenol	*153*		*ug/L*	*200*		*76*	*5-89.9*		
Surrogate: Phenol-d5	*60.4*		*ug/L*	*200*		*30*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*62.7*		*ug/L*	*100*		*63*	*27-111*		
Surrogate: 2-Fluorophenol	*72.6*		*ug/L*	*200*		*36*	*5-64.3*		
Surrogate: Terphenyl-d14	*78.9*		*ug/L*	*100*		*79*	*5-114*		
Surrogate: Nitrobenzene-d5	*52.5*		*ug/L*	*100*		*52*	*22-117*		
Matrix Spike (B430202-MS1)		**Source: 2407156-01**		Prepared: 07/17/24 15:00 Analyzed: 07/23/24 18:57					
Nonylphenol	553	333	ug/L	1000	<333	55	26-117		
Surrogate: 2,4,6-Tribromophenol	*272*		*ug/L*	*400*		*68*	*5-89.9*		
Surrogate: Phenol-d5	*109*		*ug/L*	*400*		*27*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*104*		*ug/L*	*200*		*52*	*27-111*		
Surrogate: Terphenyl-d14	*147*		*ug/L*	*200*		*74*	*5-114*		
Surrogate: 2-Fluorophenol	*125*		*ug/L*	*400*		*31*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*85.4*		*ug/L*	*200*		*43*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430242 - EPA 608.3									
Blank (B430242-BLK1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:31					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.370*		*ug/L*	*0.500*		*74*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.139*		*ug/L*	*0.500*		*28*	*10.2-92.4*		
LCS (B430242-BS1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:42					
PCB 1016	2.99	0.2	ug/L	5.00		60	13.9-125		
PCB 1260	3.42	0.2	ug/L	5.00		68	29.3-140		
Surrogate: Decachlorobiphenyl	*0.313*		*ug/L*	*0.500*		*63*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.218*		*ug/L*	*0.500*		*44*	*10.2-92.4*		
LCS Dup (B430242-BSD1)				Prepared: 07/25/24 15:00 Analyzed: 07/25/24 15:53					
PCB 1016	3.11	0.2	ug/L	5.00		62	13.9-125	4	29.5
PCB 1260	3.45	0.2	ug/L	5.00		69	29.3-140	0.8	23.1
Surrogate: Decachlorobiphenyl	*0.314*		*ug/L*	*0.500*		*63*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.223*		*ug/L*	*0.500*		*45*	*10.2-92.4*		
Matrix Spike (B430242-MS1)		**Source: 2407261-01**		Prepared: 07/23/24 15:00 Analyzed: 07/26/24 13:37					
PCB 1016	3.06	0.2	ug/L	5.00	<0.2	61	23.5-116		
PCB 1260	3.25	0.2	ug/L	5.00	<0.2	65	13.3-134		
Surrogate: Decachlorobiphenyl	*0.326*		*ug/L*	*0.500*		*65*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.223*		*ug/L*	*0.500*		*45*	*10.2-92.4*		
Matrix Spike Dup (B430242-MSD1)		**Source: 2407261-01**		Prepared: 07/23/24 15:00 Analyzed: 07/26/24 13:48					
PCB 1016	3.05	0.2	ug/L	5.00	<0.2	61	23.5-116	0.3	52
PCB 1260	3.28	0.2	ug/L	5.00	<0.2	66	13.3-134	0.8	40
Surrogate: Decachlorobiphenyl	*0.328*		*ug/L*	*0.500*		*66*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.222*		*ug/L*	*0.500*		*44*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
Blank (B429241-BLK1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 12:16						
1,1,1-Trichloroethane	<10	10	ug/L							
1,1,2,2-Tetrachloroethane	<10	10	ug/L							
1,1,2-Trichloroethane	<10	10	ug/L							
1,1-Dichloroethane	<10	10	ug/L							
1,1-Dichloroethylene	<10	10	ug/L							
1,2-Dibromoethane	<10	10	ug/L							
o-Dichlorobenzene	<10	10	ug/L							
1,2-Dichloroethane	<10	10	ug/L							
1,2-Dichloropropane	<10	10	ug/L							
m-Dichlorobenzene	<10	10	ug/L							
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L							
p-Dichlorobenzene	<10	10	ug/L							
2-Chloroethyl Vinyl Ether	<10	10	ug/L							
Acrolein	<50	50	ug/L							
Acrylonitrile	<50	50	ug/L							
Benzene	<10	10	ug/L							
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L							
Bromoform	<10	10	ug/L							
Methyl Bromide	<50	50	ug/L							
Carbon Tetrachloride	<2	2	ug/L							
Chlorobenzene	<10	10	ug/L							
Chloroethane	<50	50	ug/L							
Chloroform	<10	10	ug/L							
Methyl Chloride	<50	50	ug/L							
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L							
Ethylbenzene	<10	10	ug/L							
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L							CL
Dichloromethane [Methylene Chloride]	<20	20	ug/L							
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L							
Toluene	<10	10	ug/L							
trans-1,2-Dichloroethylene	<10	10	ug/L							
Trichloroethylene [Trichloroethene]	<10	10	ug/L							
Vinyl chloride [Chloroethene]	<10	10	ug/L							
Surrogate: 4-Bromofluorobenzene	*44.9*		*ug/L*	*50.0*		*90*	*80-106*			
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*90*	*83-118*			
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99*	*91-109*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS (B429241-BS1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:19						
1,1,1-Trichloroethane	49.8	10	ug/L	50.0		100	70-130			
1,1,2,2-Tetrachloroethane	48.4	10	ug/L	50.0		97	60-140			
1,1,2-Trichloroethane	52.5	10	ug/L	50.0		105	70-130			
1,1-Dichloroethane	48.8	10	ug/L	50.0		98	70-130			
1,1-Dichloroethylene	49.6	10	ug/L	50.0		99	50-150			
1,2-Dibromoethane	54.6	10	ug/L	50.0		109	71.6-124			
o-Dichlorobenzene	59.5	10	ug/L	50.0		119	65-135			
1,2-Dichloroethane	48.6	10	ug/L	50.0		97	70-130			
1,2-Dichloropropane	50.3	10	ug/L	50.0		101	35-165			
m-Dichlorobenzene	59.5	10	ug/L	50.0		119	70-130			
p-Dichlorobenzene	57.3	10	ug/L	50.0		115	65-135			
2-Chloroethyl Vinyl Ether	49.8	10	ug/L	50.0		100	1-225			
Acrolein	58.2	50	ug/L	50.0		116	60-140			
Acrylonitrile	43.2	50	ug/L	50.0		86	60-140			
Benzene	51.4	10	ug/L	50.0		103	65-135			
Dichlorobromomethane [Bromodichloromethane]	52.3	10	ug/L	50.0		105	65-135			
Bromoform	51.8	10	ug/L	50.0		104	70-130			
Methyl Bromide	54.2	50	ug/L	50.0		108	15-185			
Carbon Tetrachloride	51.7	2	ug/L	50.0		103	70-130			
Chlorobenzene	55.8	10	ug/L	50.0		112	65-135			
Chloroethane	46.0	50	ug/L	50.0		92	40-160			
Chloroform	51.5	10	ug/L	50.0		103	70-135			
Methyl Chloride	38.1	50	ug/L	50.0		76	1-205			
Dibromochloromethane [Chlorodibromomethane]	52.1	10	ug/L	50.0		104	70-135			
Ethylbenzene	54.7	10	ug/L	50.0		109	60-140			
Methyl Ethyl Ketone (2-Butanone)	30.9	50	ug/L	50.0		62	56.5-136			CL
Dichloromethane [Methylene Chloride]	58.5	20	ug/L	50.0		117	60-140			
Tetrachloroethylene [Tetrachloroethene]	51.4	10	ug/L	50.0		103	70-130			
Toluene	53.1	10	ug/L	50.0		106	70-130			
trans-1,2-Dichloroethylene	49.8	10	ug/L	50.0		100	70-130			
Trichloroethylene [Trichloroethene]	54.6	10	ug/L	50.0		109	65-135			
Vinyl chloride [Chloroethene]	39.8	10	ug/L	50.0		80	5-195			
Surrogate: 4-Bromofluorobenzene	*49.3*		*ug/L*	*50.0*		*99*	*80-106*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS (B429241-BS1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:19						
Surrogate: Dibromofluoromethane	*46.8*		*ug/L*	*50.0*		*94*	*83-118*			
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99*	*91-109*			
LCS Dup (B429241-BSD1)				Prepared: 07/18/24 10:10 Analyzed: 07/18/24 11:48						
1,1,1-Trichloroethane	50.7	10	ug/L	50.0		101	70-130	2	36	
1,1,2,2-Tetrachloroethane	49.1	10	ug/L	50.0		98	60-140	2	61	
1,1,2-Trichloroethane	52.0	10	ug/L	50.0		104	70-130	0.9	45	
1,1-Dichloroethane	49.6	10	ug/L	50.0		99	70-130	2	40	
1,1-Dichloroethylene	50.1	10	ug/L	50.0		100	50-150	0.9	32	
1,2-Dibromoethane	53.9	10	ug/L	50.0		108	71.6-124	1	20.3	
o-Dichlorobenzene	58.7	10	ug/L	50.0		117	65-135	1	57	
1,2-Dichloroethane	48.9	10	ug/L	50.0		98	70-130	0.6	49	
1,2-Dichloropropane	50.5	10	ug/L	50.0		101	35-165	0.4	55	
m-Dichlorobenzene	59.4	10	ug/L	50.0		119	70-130	0.2	43	
p-Dichlorobenzene	56.9	10	ug/L	50.0		114	65-135	0.7	57	
2-Chloroethyl Vinyl Ether	48.3	10	ug/L	50.0		97	1-225	3	71	
Acrolein	58.8	50	ug/L	50.0		118	60-140	1	60	
Acrylonitrile	42.4	50	ug/L	50.0		85	60-140	2	60	
Benzene	52.1	10	ug/L	50.0		104	65-135	1	61	
Dichlorobromomethane [Bromodichloromethane]	52.2	10	ug/L	50.0		104	65-135	0.2	56	
Bromoform	51.6	10	ug/L	50.0		103	70-130	0.4	42	
Methyl Bromide	54.9	50	ug/L	50.0		110	15-185	1	61	
Carbon Tetrachloride	52.2	2	ug/L	50.0		104	70-130	1	41	
Chlorobenzene	56.0	10	ug/L	50.0		112	65-135	0.3	53	
Chloroethane	46.6	50	ug/L	50.0		93	40-160	1	78	
Chloroform	52.2	10	ug/L	50.0		104	70-135	1	54	
Methyl Chloride	39.1	50	ug/L	50.0		78	1-205	3	60	
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0		104	70-135	0.7	50	
Ethylbenzene	55.2	10	ug/L	50.0		110	60-140	1	63	
Methyl Ethyl Ketone (2-Butanone)	30.2	50	ug/L	50.0		60	56.5-136	2	30.7	CL
Dichloromethane [Methylene Chloride]	59.1	20	ug/L	50.0		118	60-140	0.9	28	
Tetrachloroethylene [Tetrachloroethene]	50.2	10	ug/L	50.0		100	70-130	2	39	
Toluene	53.4	10	ug/L	50.0		107	70-130	0.5	41	
trans-1,2-Dichloroethylene	50.4	10	ug/L	50.0		101	70-130	1	45	

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Report No. 2407262

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
LCS Dup (B429241-BSD1)				Prepared: 07/18/24 10:10		Analyzed: 07/18/24 11:48				
Trichloroethylene [Trichloroethene]	53.8	10	ug/L	50.0		108	65-135	2	48	
Vinyl chloride [Chloroethene]	40.4	10	ug/L	50.0		81	5-195	2	66	
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*			
Surrogate: Dibromofluoromethane	*47.4*		*ug/L*	*50.0*		*95*	*83-118*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike (B429241-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:00				
1,1,1-Trichloroethane	47.6	10	ug/L	50.0	<10	95	52-162			
1,1,2,2-Tetrachloroethane	54.5	10	ug/L	50.0	<10	109	46-157			
1,1,2-Trichloroethane	50.9	10	ug/L	50.0	<10	102	52-150			
1,1-Dichloroethane	47.1	10	ug/L	50.0	<10	94	59-155			
1,1-Dichloroethylene	47.0	10	ug/L	50.0	<10	94	1-234			
1,2-Dibromoethane	51.8	10	ug/L	50.0	<10	104	64.7-132			
o-Dichlorobenzene	54.1	10	ug/L	50.0	<10	108	18-190			
1,2-Dichloroethane	47.0	10	ug/L	50.0	<10	94	49-155			
1,2-Dichloropropane	48.3	10	ug/L	50.0	<10	97	1-210			
m-Dichlorobenzene	52.0	10	ug/L	50.0	<10	104	59-156			
p-Dichlorobenzene	50.9	10	ug/L	50.0	<10	102	18-190			
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305			
Acrolein	61.6	50	ug/L	50.0	<50	123	40-160			
Acrylonitrile	46.2	50	ug/L	50.0	<50	92	40-160			
Benzene	49.0	10	ug/L	50.0	<10	98	37-151			
Dichlorobromomethane [Bromodichloromethane]	49.6	10	ug/L	50.0	<10	99	35-155			
Bromoform	48.9	10	ug/L	50.0	<10	98	45-169			
Methyl Bromide	52.4	50	ug/L	50.0	<50	105	1-242			
Carbon Tetrachloride	48.5	2	ug/L	50.0	<2	97	70-140			
Chlorobenzene	50.6	10	ug/L	50.0	<10	101	37-160			
Chloroethane	44.0	50	ug/L	50.0	<50	88	14-230			
Chloroform	49.5	10	ug/L	50.0	<10	99	51-138			
Methyl Chloride	36.4	50	ug/L	50.0	<50	73	1-273			
Dibromochloromethane [Chlorodibromomethane]	48.5	10	ug/L	50.0	<10	97	53-149			
Ethylbenzene	50.3	10	ug/L	50.0	<10	101	37-162			
Methyl Ethyl Ketone (2-Butanone)	34.0	50	ug/L	50.0	<50	68	41.9-177			CL
Dichloromethane [Methylene Chloride]	44.2	20	ug/L	50.0	<20	88	1-221			

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
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12/20/24 10:16
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Volatile Organic Compounds by GC/MS - Quality Control

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Batch B429241 - EPA 624.1									
Matrix Spike (B429241-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:00			
Tetrachloroethylene [Tetrachloroethene]	38.2	10	ug/L	50.0	<10	76	64-148		
Toluene	50.1	10	ug/L	50.0	<10	100	47-150		
trans-1,2-Dichloroethylene	47.2	10	ug/L	50.0	<10	94	54-156		
Trichloroethylene [Trichloroethene]	48.8	10	ug/L	50.0	<10	98	70-157		
Vinyl chloride [Chloroethene]	39.1	10	ug/L	50.0	<10	78	1-251		
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*80-106*		
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*83-118*		
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.0*		*100*	*91-109*		
Matrix Spike Dup (B429241-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10		Analyzed: 07/18/24 17:29			
1,1,1-Trichloroethane	48.7	10	ug/L	50.0	<10	97	52-162	2	36
1,1,2,2-Tetrachloroethane	56.4	10	ug/L	50.0	<10	113	46-157	3	61
1,1,2-Trichloroethane	53.4	10	ug/L	50.0	<10	107	52-150	5	45
1,1-Dichloroethane	46.6	10	ug/L	50.0	<10	93	59-155	1	40
1,1-Dichloroethylene	46.4	10	ug/L	50.0	<10	93	1-234	1	32
1,2-Dibromoethane	53.4	10	ug/L	50.0	<10	107	64.7-132	3	26.5
o-Dichlorobenzene	45.6	10	ug/L	50.0	<10	91	18-190	17	57
1,2-Dichloroethane	50.0	10	ug/L	50.0	<10	100	49-155	6	49
1,2-Dichloropropane	46.8	10	ug/L	50.0	<10	94	1-210	3	55
m-Dichlorobenzene	53.6	10	ug/L	50.0	<10	107	59-156	3	43
p-Dichlorobenzene	48.3	10	ug/L	50.0	<10	97	18-190	5	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		71
Acrolein	60.2	50	ug/L	50.0	<50	120	40-160	2	60
Acrylonitrile	47.2	50	ug/L	50.0	<50	94	40-160	2	60
Benzene	49.6	10	ug/L	50.0	<10	99	37-151	1	61
Dichlorobromomethane [Bromodichloromethane]	50.3	10	ug/L	50.0	<10	101	35-155	1	56
Bromoform	52.2	10	ug/L	50.0	<10	104	45-169	7	42
Methyl Bromide	50.9	50	ug/L	50.0	<50	102	1-242	3	61
Carbon Tetrachloride	49.3	2	ug/L	50.0	<2	99	70-140	2	41
Chlorobenzene	54.8	10	ug/L	50.0	<10	110	37-160	8	53
Chloroethane	42.7	50	ug/L	50.0	<50	85	14-230	3	78
Chloroform	49.2	10	ug/L	50.0	<10	98	51-138	0.4	54
Methyl Chloride	37.9	50	ug/L	50.0	<50	76	1-273	4	60
Dibromochloromethane [Chlorodibromomethane]	49.8	10	ug/L	50.0	<10	100	53-149	3	50

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B429241 - EPA 624.1										
Matrix Spike Dup (B429241-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:10 Analyzed: 07/18/24 17:29						
Ethylbenzene	54.4	10	ug/L	50.0	<10	109	37-162	8	63	
Methyl Ethyl Ketone (2-Butanone)	34.2	50	ug/L	50.0	<50	68	41.9-177	0.5	21.3	CL
Dichloromethane [Methylene Chloride]	44.4	20	ug/L	50.0	<20	89	1-221	0.5	28	
Tetrachloroethylene [Tetrachloroethene]	38.7	10	ug/L	50.0	<10	77	64-148	1	39	
Toluene	49.0	10	ug/L	50.0	<10	98	47-150	2	41	
trans-1,2-Dichloroethylene	48.4	10	ug/L	50.0	<10	97	54-156	2	45	
Trichloroethylene [Trichloroethene]	46.9	10	ug/L	50.0	<10	94	70-157	4	48	
Vinyl chloride [Chloroethene]	44.3	10	ug/L	50.0	<10	89	1-251	12	66	
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*80-106*			
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.0*		*105*	*83-118*			
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.0*		*102*	*91-109*			

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B429242 - EPA 5030B									
Blank (B429242-BLK1)				Prepared: 07/18/24 10:00 Analyzed: 07/18/24 12:16					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*44.9*		*ug/L*	*50.0*		*90*	*65.7-120*		
Surrogate: Dibromofluoromethane	*45.0*		*ug/L*	*50.0*		*90*	*81.2-126*		
Surrogate: Toluene-d8	*49.6*		*ug/L*	*50.0*		*99*	*87.4-109*		
LCS (B429242-BS1)				Prepared: 07/18/24 10:00 Analyzed: 07/18/24 11:19					
Dichlorobromomethane [Bromodichloromethane]	52.3	2.50	ug/L	50.0		105	80-120		
Bromoform	51.8	2.50	ug/L	50.0		104	80-120		
Chloroform	51.5	2.50	ug/L	50.0		103	80-120		

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Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B429242 - EPA 5030B									
LCS (B429242-BS1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 11:19			
Dibromochloromethane [Chlorodibromomethane]	52.1	2.50	ug/L	50.0		104	80-120		
Surrogate: 4-Bromofluorobenzene	*49.3*		*ug/L*	*50.0*		*99*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.8*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*49.5*		*ug/L*	*50.0*		*99*	*87.4-109*		
LCS Dup (B429242-BSD1)				Prepared: 07/18/24 10:00		Analyzed: 07/18/24 11:48			
Dichlorobromomethane [Bromodichloromethane]	52.2	2.50	ug/L	50.0		104	80-120	0.2	20
Bromoform	51.6	2.50	ug/L	50.0		103	80-120	0.4	20
Chloroform	52.2	2.50	ug/L	50.0		104	80-120	1	20
Dibromochloromethane [Chlorodibromomethane]	51.8	2.50	ug/L	50.0		104	80-120	0.7	20
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.4*		*ug/L*	*50.0*		*95*	*81.2-126*		
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike (B429242-MS1)		**Source: 2407156-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 17:00			
Dichlorobromomethane [Bromodichloromethane]	49.6	2.50	ug/L	50.0	<2.50	99	80-120		
Bromoform	48.9	2.50	ug/L	50.0	<2.50	98	80-120		
Chloroform	49.5	2.50	ug/L	50.0	<2.50	99	80-120		
Dibromochloromethane [Chlorodibromomethane]	48.5	2.50	ug/L	50.0	<2.50	97	80-120		
Surrogate: 4-Bromofluorobenzene	*49.4*		*ug/L*	*50.0*		*99*	*65.7-120*		
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.0*		*100*	*81.2-126*		
Surrogate: Toluene-d8	*50.1*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike Dup (B429242-MSD1)		**Source: 2407156-01**		Prepared: 07/18/24 10:00		Analyzed: 07/18/24 17:29			
Dichlorobromomethane [Bromodichloromethane]	50.3	2.50	ug/L	50.0	<2.50	101	80-120	1	20
Bromoform	52.2	2.50	ug/L	50.0	<2.50	104	80-120	7	20
Chloroform	49.2	2.50	ug/L	50.0	<2.50	98	80-120	0.4	20
Dibromochloromethane [Chlorodibromomethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120	3	20
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*65.7-120*		
Surrogate: Dibromofluoromethane	*52.3*		*ug/L*	*50.0*		*105*	*81.2-126*		
Surrogate: Toluene-d8	*51.0*		*ug/L*	*50.0*		*102*	*87.4-109*		

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SAMPLE QUALIFIERS

Za	Sample amount given was not enough for QC.
Z	Fluoride Value 1.17 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

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Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407262-01	CN_Sub
Eurofins - Pittsburgh	2407262-01	Color_SUB

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS energy	COMPANY:	REPORT NUMBER: 24107262
ADDRESS: 12940 US HWY 181 S	ADDRESS:	
CITY: SA STATE: TX ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: cvasbinder PHONE #: 210-213-7308	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☐ 7-10 Days REG ☒ | ☐ 5 Days +25% | ☐ 4 Days +50% | ☐ 3 DAYS +75% | ☐ 2 DAYS +100% | ☐ Next Day +150% | ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB PP (week 1) inlet

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ | Field: pH:_____; Temp:_____ °C; LCS/D:_____/_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO | INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO | AUTHORIZE TO PROCEED _____
PROPER CONTAINERS INTACT ☒ YES ☐ NO | IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____

SAMPLED BY: L. Patron / cvasbinder

OBSERVED TEMP. 4.0C / CORRECTED TEMP. 4.0C / TEMP. ID GUN #1 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ | PST PCLS ☐ SIM/LOW LEVEL ☐ | TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED: DATE	COLLECTED: TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	ANALYSIS REQUESTED: BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / O-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P. (see attachment)	PRESERVED WITH: Ice	HCl	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NaO2S2O3	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	VOA AIR BUBBLES	REMARKS
1	7.17.24	0915		X								X			VHB inlet	25	11695										X		X	X	X	X	X	X							

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
L. Patron	7.17.24 1187		JUL 17 2024				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
cvasbinder	7.17.24 1127	Himel Landen	1127				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☐ YES ☒ NO Eurofins	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO ☒	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet	Notes
(Process Water Outfalls)	1	CAL/VHB	External	Yes	
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes	Cyanide method OIA 1677
	3	CAL/VHB	External	Yes	
	4	CAL	001 & 007 Only	Yes	No E. coli sampling at VHB
	6	CAL/VHB	External	Yes	
	8	CAL/VHB	External	Yes	
	9	CAL/VHB	External	Yes	

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet

4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

Parameters Ordered from SATL	All except Hg, Ar & Se	Use detection limit from permit app tables.
[redacted]		
Test America	Cn	

Additional Toxic Pollutants and Hazardous Substances

Toxic Pollutants		
Asbestos		
Hazardous Substances		
Acetaldehyde	Dinitrobenzene	Phenolsulfonate
Allyl alcohol	Diquat	Phosgene
Allyl chloride	Disulfoton	Propargite
Amyl acetate	Diuron	Propylene oxide
Aniline	Epichlorohydrin	Pyrethrins
Benzonitrile	Ethion	Quinoline
Benzyl chloride	Ethylene diamine	Resorcinol
Butyl acetate	Formaldehyde	Strontium
Butylamine	Furfural	Strychnine
Carbofuran	Isoprene	Styrene
Carbon disulfide	Isopropanolamine	2,4,5-T
Coumaphos	Kepone	TDE (Tetrachlorodiphenylethane)
Cresol	Mercaptodimethur	Trichlorfon
Crotonaldehyde	Methyl mercaptan	Triethylamine
Cyclohexane	Methyl methacrylate	Trimethylamine
Dicamba	Mevinphos	Uranium
Dichlobenil	Mexacarbate	Vanadium
Dichlone	Monoethylamine	Vinyl acetate
2,2-Dichloropropionic acid	Monomethylamine	Xylene
Dichlorvos	Naled	Xylenol
Diethylamine	Naphthenic acid	Zirconium
Dimethylamine	Nitrotoluene	

Minimum Analytical Levels and Suggested Methods for Application Screening

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Acenaphthene	83-32-9	10	625
Acenaphthylene	208-96-8	10	625
Acetaldehyde	75-07-0	50	1667
Acrolein	107-02-8	50	624
Acrylonitrile	107-13-1	50	624, 1624B
Aldrin	309-00-2	0.01	608
Allyl alcohol	107-18-6	50	608
Allyl chloride	107-05-1	10	1624
Aluminum, total	7429-90-5	2.5	200.8
Amyl acetate	628-63-7	5	1666
Aniline	62-53-3	10	625
Anthracene	120-12-7	10	625
Antimony, total	7440-36-0	5	200.8
Arsenic, total	7440-38-2	0.5	200.8
Asbestos	1332-21-4	—	100.1 and 100.2
Barium, total	7440-39-3	3	200.8
Benzene	71-43-2	10	624

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Copper, total	7440-50-8	2	200.8
Coumaphos	56-72-4	0.025	1657
Cresols (all isomers)	1319-77-3	10	625
m-Cresol [3-Methylphenol]	108-39-4	10	625
o-Cresol [2-Methylphenol]	95-48-7	10	625
p-Cresol [4-Methylphenol]	106-44-5	10	625
Crotonaldehyde	4170-30-3	10	1624
Cyanide, total	57-12-5	10	335.4, 4500-CN D, or 4500-CN E
Cyanide, free or available	57-12-5	10	4500-CN G
	57-12-5	2	OIA-1677
Cyclohexane	110-82-7	5	1666
4,4'-DDD	72-54-8	0.1	608
4,4'-DDE	72-55-9	0.1	608
4,4'-DDT	50-29-3	0.02	608
2,4-D	94-75-7	0.7	615 or SM6640B
Danitol [Fenpropathrin]	39515-41-8	†	†
Demeton	8065-48-3	0.20	1657
Diazinon	333-41-5	0.5	1657
		0.1	614
Dibenzo(a,h)anthracene	53-70-3	5	625
1,2-Dibromoethane	106-93-4	10	1624
Dicamba	1918-00-9	0.110	1658
Dichlone	117-80-6	—	1656
m-Dichlorobenzene [1,3-Dichlorobenzene]	541-73-1	10	624
o-Dichlorobenzene [1,2-Dichlorobenzene]	95-50-1	10	624
p-Dichlorobenzene [1,4-Dichlorobenzene]	106-46-7	10	624
3,3'-Dichlorobenzidine	91-94-1	5	625
1,1-Dichloroethane	75-34-3	10	624
1,2-Dichloroethane	107-06-2	10	624
1,1-Dichloroethene [1,1-Dichloroethylene]	75-35-4	10	624
Dichloromethane [Methylene chloride]	75-09-2	20	624
2,4-Dichlorophenol	120-83-2	10	625
1,2-Dichloropropane	78-87-5	10	624
1,3-Dichloropropene [1,3-Dichloropropylene]	542-75-6	10	624
2,2-Dichloropropionic acid [Dalapon]	75-99-0	2	615
Dichlorvos	62-73-7	0.004	1657
Dicofol [Kelthane]	115-32-2	1	ASTM D5812-96(02)
Dieldrin	60-57-1	0.02	608
Diethyl amine	109-89-7	50 mg/L	1671
Diethyl phthalate	84-66-2	10	625
Dimethyl amine	124-40-3	50 mg/L	1671
2,4-Dimethylphenol	105-67-9	10	625

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Fluoride	16984-48-8	500	300.0, 300.1
Formaldehyde	50-00-0	50	1667
Furfural	98-01-1	50 mg/L	1667
Guthion [Azinphos methyl]	86-50-0	0.1	1657
Heptachlor	76-44-8	0.01	608
Heptachlor epoxide	1024-57-3	0.01	608
Hexachlorobenzene	118-74-1	5	625
Hexachlorobutadiene	87-68-3	10	625
Hexachlorocyclohexane (alpha)	319-84-6	0.05	608
Hexachlorocyclohexane (beta)	319-85-7	0.05	608
Hexachlorocyclohexane (gamma) [Lindane]	58-89-9	0.05	608
Hexachlorocyclohexane (delta)	319-86-8	0.05	608
Hexachlorocyclopentadiene	77-47-4	10	625 or 1625B
Hexachloroethane	67-72-1	20	625
Hexachlorophene	70-30-4	10	604.1
Indeno(1,2,3-cd)pyrene	193-39-5	5	625
Iron, total	7439-89-6	7	200.7
Isophorone	78-59-1	10	625
Kepone	143-50-0	0.3	1656
Lead, total	7439-92-1	0.5	200.8
Magnesium, total	7439-95-4	20	200.7
Malathion	121-75-5	0.1	1657 or SM6630C
Manganese, total	7439-96-5	0.5	200.8
Mercaptodimethur [Methiocarb]	2032-65-7	0.06	632
Mercury, total	7439-97-6	0.005	245.7, Rev. 2.0
	7439-97-6	0.0005	1631E
Methoxychlor	72-43-5	2.0	617 or SM6630B and C
Methyl bromide [Bromomethane]	74-83-9	50	624
Methyl chloride [Chloromethane]	74-87-3	50	624
Methyl ethyl ketone	78-93-3	50	624
Methyl methacrylate	80-62-6	10	1624
Mevinphos	7786-34-7	0.2	1657
Mexacarbate	315-18-4	1.5	632
Mirex	2385-85-5	0.02	SM6630B and C
Molybdenum, total	7439-98-7	1	200.8
Monomethylamine	74-89-5	50 mg/L	1667
Naled	300-76-5	0.05	1657
Naphthalene	91-20-3	10	625
Nickel, total	7440-02-0	2	200.8
Nitrate-nitrogen	14797-55-8	100	300.0, Rev. 2.1 300.1, Rev. 1.0
Nitrobenzene	98-95-3	10	625
2-Nitrophenol	88-75-5	20	625
4-Nitrophenol	100-02-7	50	625

POLLUTANT	CASRN*	MAL (µg/L)	Suggested Method
Toluene	108-88-3	10	624
Toxaphene	8001-35-2	0.3	608
2,4,5-TP [Silvex]	93-72-1	0.3	SM6640B
1,2-Trans-Dichloroethylene [1,2-Trans-Dichloroethene]	156-60-5	10	624
Tributyltin	688-73-3	0.01	TCEQ 1001
1,2,4-Trichlorobenzene	120-82-1	10	625
1,1,1-Trichloroethane	71-55-6	10	624
1,1,2-Trichloroethane	79-00-5	10	624
Trichloroethene [Trichloroethylene]	79-01-6	10	624
Trichlorfon	52-68-6	0.45	1657
2,4,5-Trichlorophenol	95-95-4	50	1625
2,4,6-Trichlorophenol	88-06-2	10	625
Triethylamine	121-44-8	50 mg/L	1667
TTHM (Total Trihalomethanes)	(see below)	(see below)	(see below)
Bromodichloromethane	75-27-4	10	624
Dibromochloromethane	124-48-1	10	624
Tribromomethane (Bromoform)	75-25-2	10	624
Trichloromethane (Chloroform)	67-66-3	10	624
Trimethylamine	75-50-3	—	1666
Uranium, total	7440-61-1	0.5	200.8
Vanadium, total	7440-62-2	5	200.8
Vinyl acetate	108-05-4	50	1624
Vinyl chloride	75-01-4	10	624
Xylenes, total	1330-20-7	10	624
Xylenol	1300-71-6	30	1624C
Zinc, total	7440-66-6	5.0	200.8
Zirconium	7440-67-7	100	1620

— MAL not yet developed.
* Chemical Abstracts Service Registry Number
** Hydrolyzes in water. No analysis required at this time.
*** Trivalent Chromium (Cr) determined by subtracting Hexavalent Cr from Total Cr.
† EPA procedure not approved. The TCEQ will not require applicants to analyze at this time.
†† Until Method 1668B or equivalent method to measure PCB congeners is approved in *40 CFR Part 136*, compliance with PCB criteria is determined using Arochlor data or any alternate method listed in a TCEQ-approved Quality Assurance Plan.

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____

(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): _____

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** _____

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
~~Arsenic, total~~					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
~~Mercury, total~~					0.005/0.0005
Nickel, total					2
~~Selenium, total~~					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					–
Nitrate-Nitrite (as N)	☐	☐					–
Sulfide (as S)	☐	☐					–
Sulfite (as SO_3)	☐	☐					–
Surfactants	☐	☐					–
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☐ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] : Volatile Compounds

Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: **: Acid Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [redacted] **: Base/Neutral Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: Inlet (Week 1)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407262

Work Order Due by:	07/26/24 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	07/17/24 11:27
Logged In By:	Aimee Landon	Date Logged In:	07/18/24 08:34

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*3.4°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/17/24 11:27*

SATL#FO001
Revised 09/15/2022

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

Generated 7/24/2024 5:02:08 PM

JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177214-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

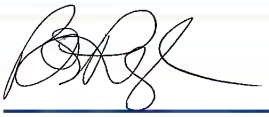
Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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7/24/2024 5:02:08 PM

Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job Narrative
180-177214-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 7/18/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. There is a break in the coc with the client who would have orginaly elinquished the sample to the person, that would have received the sample, only showed relinquishing the samples. The intial time of relinquishing was not documented.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177214-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177214-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177214-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177214-1	2407262-01 (VHBINLET)	Water	07/17/24 09:15	07/18/24 10:00

Method Summary

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177214-1

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177214-1
Project/Site: Permit Analysis

Client Sample ID: 2407262-01 (VHBINLET)
Lab Sample ID: 180-177214-1

Date Collected: 07/17/24 09:15
Matrix: Water
Date Received: 07/18/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	474494	07/18/24 15:43	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			474809	07/23/24 15:51	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177214-1

Client Sample ID: 2407262-01 (VHBINLET)

Lab Sample ID: 180-177214-1

Date Collected: 07/17/24 09:15

Matrix: Water

Date Received: 07/18/24 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**30**		5.0	5.0	Color Units			07/18/24 15:43	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			07/18/24 15:43	1
pH at time of analysis (SM 2120B-2011)	**9.6**		0.10	0.10	SU			07/18/24 15:43	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			07/23/24 15:51	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177214-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-474494/1
Matrix: Water
Analysis Batch: 474494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			07/18/24 15:35	1
Color, True	ND		5.0	5.0	Color Units			07/18/24 15:35	1
pH at time of analysis	NA		0.10	0.10	SU			07/18/24 15:35	1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-474809/26
Matrix: Water
Analysis Batch: 474809

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			07/23/24 15:37	1

Lab Sample ID: LCS 180-474809/27
Matrix: Water
Analysis Batch: 474809

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	49.5		ug/L		99	82 - 132

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177214-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 474494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177214-1	2407262-01 (VHBINLET)	Total/NA	Water	2120B-2011	
MB 180-474494/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-474494/2	Lab Control Sample	Total/NA	Water	2120B-2011	

Analysis Batch: 474809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177214-1	2407262-01 (VHBINLET)	Total/NA	Water	OIA - 1677	
MB 180-474809/26	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-474809/27	Lab Control Sample	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SAR	COMPANY SAR	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN: Aimee landon PHONE #	ATTN: Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3 00 PM SHALL BEGIN AT 8 00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ

DATA TO TCEQ ❑ RRC ❑ Other (Specify) ❑ Field pH._____, Temp _____ °C, LCS/D._____|_____, Dup._____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO
PROPER CONTAINERS INTACT ❑ YES ❑ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ❑ YES ❑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ SAMPLE ICED ❑ YES ❑ NO
TRRP 13 ❑ APPENDIX A ❑ PST PCLS ❑ SIM/LOW LEVEL ❑ TSDF Class 2 ❑ PERMIT ❑

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	CN available 01416777 Color colorimetric 21203b	PRESERVED WITH: HCl, HNO3, H2SO4, NaOH, NaOH+ZnAc, H3PO4, HNO3, PRESERVED IN THE LAB, COMPOSITED IN THE LAB, FILTERED IN THE LAB, FILTERED IN THE FIELD, VOA AIR BUBBLES	REMARKS
1	7/17/24	0915	X									X			24072402-01 (VHB001) Inlet	2	250ml									X	X		

180-177214 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Aimee landon	DATE / TIME 7/17/24 1700	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME 07/18/24 0900	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ❑ (Initial) 5035 ❑ N/A ❑		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO	

FORM. COC REV 09/2022 WHITE - LAB CANARY - CLIENT

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3 **GETTING YOUR SHIPMENT TO UPS**

Customers with a scheduled Pickup

- Your driver will pickup your shipment(s) as usual.

Customers without a scheduled Pickup

- Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
- Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Di UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location ne please visit the 'Locations' Quick link at ups.com.

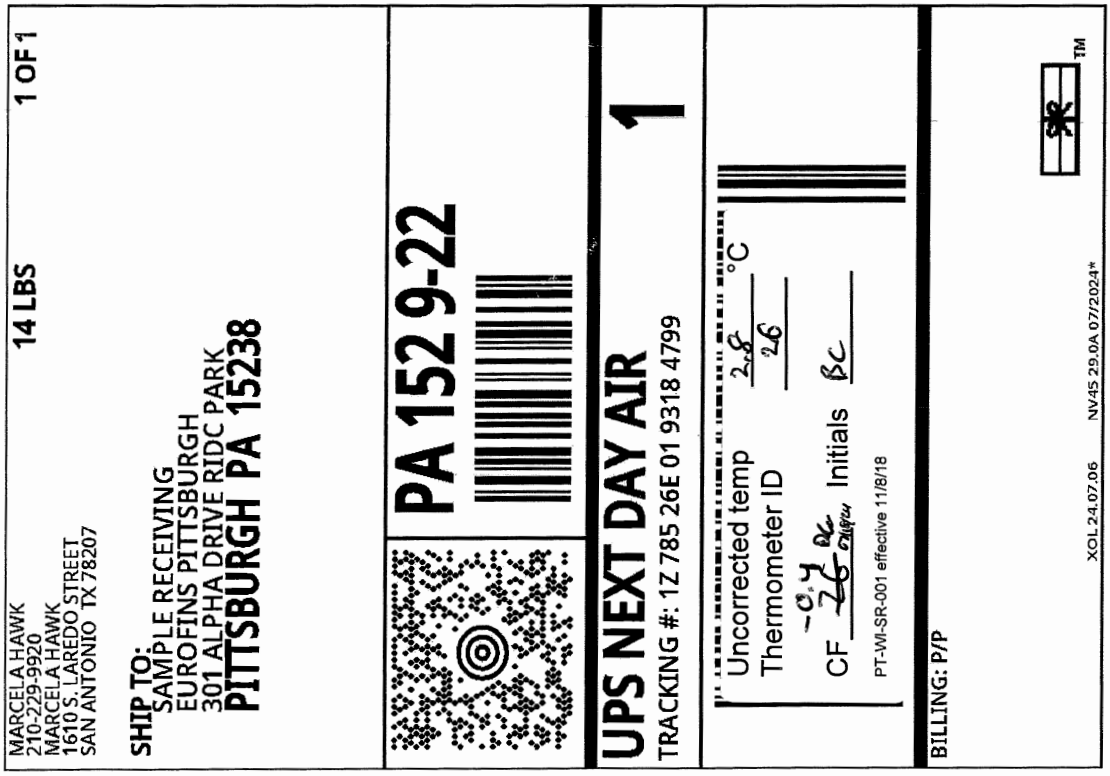


UPS Access Point™
CVS STORE # 10179
300 E COMMERCE ST
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UPS Access Point™
ADVANCE AUTO PARTS STORE 5753
211 S ZARZAMORA ST
SAN ANTONIO TX 78207-4146

UPS Access Point™
ADVANCE AUTO PARTS STC
2619 NOGALITOS
SAN ANTONIO TX 78225-171

FOLD HERE



Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177214-1

Login Number: 177214
List Number: 1
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 20, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407429
RE: VHB Priority Pollutants
Project Number: 001 (Week 2)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/24/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

Reported:
12/20/24 10:09
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407429

SAMPLE SUMMARY

Total Samples received in this work order: 1

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB 001	2407429-01	Liquid	Grab	07/24/24 10:00	07/24/24 13:54

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

Reported:
12/20/24 10:09
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407429

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407429-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 10:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	13.3	mg/L	0.10	SM 5310C	B430277	07/26/24 19:31	SM5310C	SG	
Total Alkalinity *	388	mg/L as CaCO3	20.0	SM2320B	B432190	08/05/24 16:25	SM2320B	JA	
Ammonia-Nitrogen *	1.12	mg/L	1.00	SM4500NH3B	B431381	08/01/24 17:07	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	2.80	mg/L	1.00	EPA 351.3	B432189	08/05/24 14:00	EPA 351.3	JA	
Total Organic Nitrogen	1.68	mg/L	1.00	[CALC]	[CALC]	08/05/24 14:00	CALC	JA	
Sulfide *	<100	ug/L	100	EPA 376.2	B432177	07/25/24 09:30	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B430314	07/25/24 16:30	SM5540C	SG	
Total Dissolved Solids *	1590	mg/L	8.33	SM2540C	B431262	07/29/24 09:11	SM2540C	DD	
Total Suspended Solids *	9.60	mg/L	5.00	SM2540D	B431316	07/31/24 09:00	SM2540D	DD	
COD *	65.5	mg/L	5.00	H8000	B431383	08/02/24 16:58	H8000	DD	
pH *	9.27	pH Units	0.01	SM4500HB	B432169	07/25/24 09:10	SM4500HB	JA	H
pH measured @Temperature >>	69.3	°F	0.100	SM4500HB	B432169	07/25/24 09:10	SM2550B	JA	H
BOD-5 *	4.40	mg/L	2.00	SM5210B	B431245	07/30/24 13:10	SM5210B	DD	
CBOD *	6.05	mg/L	2.00	SM5210B	B431246	07/30/24 13:12	SM5210B	DD	
Dissolved Oxygen *	9.48	mg/L	2.00	EPA 360.1	B430279	07/25/24 16:03	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B431327	08/02/24 16:40	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B432188	08/05/24 16:38	EPA 377.1	JA	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B432178	07/25/24 09:50	I-1230-85	JA	
Residual Chlorine *	0.02	mg/L	0.01	SM4500ClG	B432176	07/25/24 09:05	SM4500ClG	JA	
Total Phosphorous *	0.54	mg/L	0.05	EPA 365.3	B432180	08/02/24 12:40	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1230	ug/L	500	EPA 300.0	B430248	07/25/24 00:29	EPA 300.0	JA	Z
Chloride *	637	mg/L	5.00	EPA 300.0	B430248	07/25/24 00:29	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B430248	07/25/24 00:11	EPA 300.0	JA	
Bromide *	9270	ug/L	400	EPA 300.0	B430248	07/25/24 00:29	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B430248	07/25/24 00:29	EPA 300.0	JA	
Sulfate *	148	mg/L	5.00	EPA 300.0	B430248	07/25/24 00:29	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	07/25/24 00:29	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

Reported:
12/20/24 10:09
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407429

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407429-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 10:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									
Aluminum *	32	ug/L	2	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Barium *	52	ug/L	3	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Boron *	969	ug/L	20	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Cobalt *	0.3	ug/L	0.3	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Copper *	<2	ug/L	2	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Iron *	83	ug/L	7	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Magnesium *	9410	ug/L	20	EPA 200.8	B430276	07/26/24 18:28	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Nickel *	5	ug/L	2	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Zinc *	25	ug/L	5	EPA 200.8	B430276	07/26/24 18:06	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	07/26/24 18:06	CALC	JA	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	

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Report No. 2407429

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407429-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 10:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	CL
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 16:12	EPA 625.1	ME	

Surrogate: 2,4,6-Tribromophenol	*69 %*	*18.3-110*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*
Surrogate: 2-Fluorobiphenyl	*48 %*	*15.6-80.4*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*
Surrogate: 2-Fluorophenol	*42 %*	*2.8-70.6*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*
Surrogate: Nitrobenzene-d5	*50 %*	*8.98-84*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*
Surrogate: Phenol-d5	*34 %*	*1.11-63.5*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*
Surrogate: Terphenyl-d14	*77 %*	*8.46-114*	*EPA 3510C*	*B431235*	*07/31/24 16:12*	*EPA 625.1*	*ME*

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12/20/24 10:09
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Report No. 2407429

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407429-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 10:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B431234	07/31/24 16:12	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*67 %*		*5-89.9*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*48 %*		*27-111*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*29 %*		*5-64.3*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*36 %*		*5-64.3*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*71 %*		*5-114*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*42 %*		*22-117*	*ASTM D7065-11*	*B431234*	*07/31/24 16:12*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:50	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*73 %*		*15.3-112*	*EPA 608.3*	*B431310*	*08/02/24 19:50*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*62 %*		*10.2-92.4*	*EPA 608.3*	*B431310*	*08/02/24 19:50*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
1,3-Dichloropropylene [1,3-Dichloropr	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Acrolein *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Benzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Bromoform *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	

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Report No. 2407429

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407429-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 10:00**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Chloroethane *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Chloroform *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Toluene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 11:11	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*100 %*		*80-106*	*EPA 624.1*	*B430271*	*07/26/24 11:11*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*91 %*		*83-118*	*EPA 624.1*	*B430271*	*07/26/24 11:11*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*98 %*		*91-109*	*EPA 624.1*	*B430271*	*07/26/24 11:11*	*EPA 624.1*	*TB*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 10:43	EPA 624.1	TB	
Bromoform *	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 10:43	EPA 624.1	TB	
Chloroform *	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 10:43	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 10:43	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	EPA 5030B	B430281	07/26/24 10:43	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	07/26/24 10:43	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*101 %*		*65.7-120*	*EPA 5030B*	*B430281*	*07/26/24 10:43*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*91 %*		*81.2-126*	*EPA 5030B*	*B430281*	*07/26/24 10:43*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*98 %*		*87.4-109*	*EPA 5030B*	*B430281*	*07/26/24 11:11*	*EPA 624.1*	*TB*	

CPS Energy - Environmental Dept.
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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430277 - SM 5310C										
Blank (B430277-BLK1)				Prepared: 07/25/24 11:00 Analyzed: 07/26/24 17:37						
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B430277-BS1)				Prepared: 07/25/24 11:00 Analyzed: 07/26/24 18:04						
Total Organic Carbon	4.64	0.10	mg/L	5.00		93	80-120			
LCS Dup (B430277-BSD1)				Prepared: 07/25/24 11:00 Analyzed: 07/26/24 18:30						
Total Organic Carbon	4.64	0.10	mg/L	5.00		93	80-120	0.02	20	
Batch B430279 - EPA 360.1										
Duplicate (B430279-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 16:00 Analyzed: 07/25/24 16:02						
Dissolved Oxygen	9.35	2.00	mg/L		9.34			0.1	20	H, UA
Batch B430314 - SM5540 C										
Blank (B430314-BLK1)				Prepared: 07/25/24 14:00 Analyzed: 07/25/24 16:30						
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L							
LCS (B430314-BS1)				Prepared: 07/25/24 14:00 Analyzed: 07/25/24 16:30						
MBAS, calculated as LAS, mol wt (288)	240	200	ug/L	250		96	80-120			
LCS Dup (B430314-BSD1)				Prepared: 07/25/24 14:00 Analyzed: 07/25/24 16:30						
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120	0.4	20	
Duplicate (B430314-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 14:00 Analyzed: 07/25/24 16:30						
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20	
Batch B431245 - SM5210B										
Blank (B431245-BLK1)				Prepared: 07/25/24 15:00 Analyzed: 07/30/24 13:00						
BOD-5	<2.00	2.00	mg/L							
LCS (B431245-BS1)				Prepared: 07/25/24 15:00 Analyzed: 07/30/24 13:02						
BOD-5	188	2.00	mg/L	200		94	80-120			
LCS (B431245-BS2)				Prepared: 07/25/24 15:00 Analyzed: 07/30/24 13:04						
BOD-5	196	2.00	mg/L	200		98	80-120			

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General Chemistry - Quality Control

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Batch B431245 - SM5210B									
LCS (B431245-BS3)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:06			
BOD-5	174	2.00	mg/L	200		87	80-120		
Duplicate (B431245-DUP1)		**Source: 2407432-01**		Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:14			
BOD-5	153	2.00	mg/L		144			6	20
Batch B431246 - SM5210B									
Blank (B431246-BLK1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:00			
CBOD	<2.00	2.00	mg/L						
LCS (B431246-BS1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:02			
CBOD	188	2.00	mg/L	200		94	80-120		
LCS (B431246-BS2)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:04			
CBOD	196	2.00	mg/L	200		98	80-120		
LCS (B431246-BS3)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:06			
CBOD	174	2.00	mg/L	200		87	80-120		
Duplicate (B431246-DUP1)		**Source: 2407429-01**		Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:10			
CBOD	6.01	2.00	mg/L		6.05			0.7	20
Batch B431262 - SM2540C									
Blank (B431262-BLK1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:00			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B431262-BS1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:01			
Total Dissolved Solids	96.0	2.50	mg/L	100		96	80-120		
LCS Dup (B431262-BSD1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:02			
Total Dissolved Solids	98.0	2.50	mg/L	100		98	80-120	2	20
Duplicate (B431262-DUP1)		**Source: 2407388-01**		Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:03			
Total Dissolved Solids	7700	83.3	mg/L		7470			3	20
Batch B431316 - SM2540D									
Blank (B431316-BLK1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 13:25			
Total Suspended Solids	<2.50	2.50	mg/L						

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General Chemistry - Quality Control

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Batch B431316 - SM2540D									
LCS (B431316-BS1)				Prepared: 08/01/24 10:30 Analyzed: 08/01/24 13:26					
Total Suspended Solids	106	25.0	mg/L	100		106	80-120		
LCS Dup (B431316-BSD1)				Prepared: 08/01/24 10:30 Analyzed: 08/01/24 13:27					
Total Suspended Solids	100	25.0	mg/L	100		100	80-120	6	20
Duplicate (B431316-DUP1)		**Source: 2407546-02**		Prepared: 08/01/24 10:30 Analyzed: 08/01/24 13:36					
Total Suspended Solids	87.6	10.0	mg/L		81.6			7	20
Batch B431327 - EPA 1664A									
Blank (B431327-BLK1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B431327-BS1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	33.1	4.75	mg/L	40.0		83	78-114		
LCS Dup (B431327-BSD1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	34.6	4.75	mg/L	40.0		86	78-114	4	18
Matrix Spike (B431327-MS1)		**Source: 2407564-02**		Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	38.1	5.59	mg/L	47.1	1.06	79	78-114		
Matrix Spike (B431327-MS2)		**Source: 2407429-01**		Prepared: 08/01/24 15:00 Analyzed: 08/02/24 16:40					
Oil & Grease (HEM)	40.1	4.75	mg/L	40.0	<4.75	100	78-114		
Batch B431381 - SM4500NH3B									
Blank (B431381-BLK1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:00					
Ammonia-Nitrogen	<1.00	1.00	mg/L						
LCS (B431381-BS1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:01					
Ammonia-Nitrogen	16.8	1.00	mg/L	20.0		84	80-120		
LCS Dup (B431381-BSD1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:02					
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	18	20
Duplicate (B431381-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:03					
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20
Matrix Spike (B431381-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:04					

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Batch B431381 - SM4500NH3B										
Matrix Spike (B431381-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:04				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120			
Matrix Spike Dup (B431381-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:08				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120	0	200	
Batch B431383 - H8000										
Blank (B431383-BLK1)				Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:50				
COD	<5.00	5.00	mg/L							
LCS (B431383-BS1)				Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:51				
COD	45.1	5.00	mg/L	50.0		90	80-120			
LCS Dup (B431383-BSD1)				Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:52				
COD	42.3	5.00	mg/L	50.0		85	80-120	6	20	
Duplicate (B431383-DUP1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:53				
COD	62.7	5.00	mg/L		64.1			2	20	
Matrix Spike (B431383-MS1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:54				
COD	106	5.00	mg/L	50.0	64.1	85	80-120			
Matrix Spike Dup (B431383-MSD1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:55				
COD	106	5.00	mg/L	50.0	64.1	84	80-120	0.3	20	
Batch B432169 - SM4500HB										
LCS (B432169-BS1)				Prepared: 07/25/24 08:45		Analyzed: 07/25/24 08:45				
pH	7.08	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	20.4	0.100	°F				0-200			
Duplicate (B432169-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 08:45		Analyzed: 07/25/24 09:05				
pH	9.20	0.01	pH Units		9.14			0.7	20	H
pH measured @Temperature >>	20.7	0.100	°F		69.3			108	30	H S
Batch B432176 - SM4500ClG										
Blank (B432176-BLK1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432176-BS1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432176 - SM4500ClG										
Residual Chlorine	0.259	0.01	mg/L	0.250		104	80-120			
LCS Dup (B432176-BSD1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:00						
Residual Chlorine	0.251	0.01	mg/L	0.250		100	80-120	3	20	
Duplicate (B432176-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:10						
Residual Chlorine	0.0210	0.01	mg/L		0.0200			5	20	
Matrix Spike (B432176-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:10						
Residual Chlorine	0.139	0.01	mg/L	0.250	0.0200	48	80-120			M
Matrix Spike Dup (B432176-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:10						
Residual Chlorine	0.135	0.01	mg/L	0.250	0.0200	46	80-120	3	20	M
Batch B432177 - EPA 376.2										
Blank (B432177-BLK1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:00						
Sulfide	<100	100	ug/L							
LCS (B432177-BS1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:00						
Sulfide	96.0	100	ug/L	100		96	80-120			
LCS Dup (B432177-BSD1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:00						
Sulfide	101	100	ug/L	100		101	80-120	5	20	
Duplicate (B432177-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:40						
Sulfide	<100	100	ug/L		<100				20	
Matrix Spike (B432177-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:40						
Sulfide	93.0	100	ug/L	100	<100	93	70-130			
Matrix Spike Dup (B432177-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:40						
Sulfide	96.0	100	ug/L	100	<100	96	70-130	3	30	
Batch B432178 - I-1230-85										
Blank (B432178-BLK1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:30						
Hexavalent Chromium	<3	3	ug/L							
LCS (B432178-BS1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:30						
Hexavalent Chromium	426	3	ug/L	400		106	90-110			
LCS Dup (B432178-BSD1)				Prepared: 07/25/24 09:00 Analyzed: 07/25/24 09:30						

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Batch B432178 - I-1230-85										
Hexavalent Chromium	422	3	ug/L	400		106	90-110	0.9	20	
Duplicate (B432178-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	<3	3	ug/L		<3				20	
Matrix Spike (B432178-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	381	3	ug/L	400	<3	95	80-120			
Matrix Spike Dup (B432178-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	384	3	ug/L	400	<3	96	80-120	0.8	20	
Batch B432180 - EPA 365.3										
Blank (B432180-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B432180-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.483	0.05	mg/L	0.500		97	80-120			
LCS Dup (B432180-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.459	0.05	mg/L	0.500		92	80-120	5	20	
Duplicate (B432180-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.503	0.05	mg/L		0.543			8	20	
Matrix Spike (B432180-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.543	39	80-120			M
Matrix Spike Dup (B432180-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.767	0.05	mg/L	0.500	0.543	45	80-120	4	20	M
Batch B432188 - SM4500-SO3(B)										
Blank (B432188-BLK1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:30				
Sulfite	<1000	1000	ug/L							
LCS (B432188-BS1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:32				
Sulfite	9000	1000	ug/L	10000		90	80-120			
LCS Dup (B432188-BSD1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:34				
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20	
Duplicate (B432188-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:40				

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Batch B432188 - SM4500-SO3(B)									
Sulfite	<1000	1000	ug/L		<1000				20
Batch B432189 - EPA 351.3									
Blank (B432189-BLK1)				Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B432189-BS1)				Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120		
LCS Dup (B432189-BSD1)				Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	0	20
Duplicate (B432189-DUP1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	2.80	1.00	mg/L		3.36			18	20
Matrix Spike (B432189-MS1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	3.36	90	80-120		
Matrix Spike Dup (B432189-MSD1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00 Analyzed: 08/05/24 14:00					
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	3.36	104	80-120	12	20
Batch B432190 - SM2320B									
Blank (B432190-BLK1)				Prepared: 08/05/24 15:00 Analyzed: 08/05/24 16:00					
Total Alkalinity	<20.0	20.0	mg/L as CaCO3						
LCS (B432190-BS1)				Prepared: 08/05/24 15:00 Analyzed: 08/05/24 16:02					
Total Alkalinity	96.0	20.0	mg/L as CaCO3	100		96	80-120		
LCS Dup (B432190-BSD1)				Prepared: 08/05/24 15:00 Analyzed: 08/05/24 16:04					
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120	4	20
Duplicate (B432190-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00 Analyzed: 08/05/24 16:30					
Total Alkalinity	392	20.0	mg/L as CaCO3		388			1	20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Report No. 2407429

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430248 - EPA 300.0										
Blank (B430248-BLK1)				Prepared: 07/24/24 16:30 Analyzed: 07/24/24 17:02						
Fluoride	<500	500	ug/L							
Chloride	<0.100	0.100	mg/L							
Nitrite as N	<100	100	ug/L							
Bromide	<400	400	ug/L							
Nitrate as N	<0.100	0.100	mg/L							
Sulfate	<0.10	0.10	mg/L							
LCS (B430248-BS1)				Prepared: 07/24/24 16:30 Analyzed: 07/24/24 17:20						
Fluoride	1000	500	ug/L	1000		100	90-110			
Chloride	5.24	0.100	mg/L	5.00		105	90-110			
Nitrite as N	4970	100	ug/L	5000		99	90-110			
Bromide	4810	400	ug/L	5000		96	90-110			
Nitrate as N	5.33	0.100	mg/L	5.00		107	90-110			
Sulfate	5.36	0.10	mg/L	5.00		107	90-110			
LCS Dup (B430248-BSD1)				Prepared: 07/24/24 16:30 Analyzed: 07/24/24 17:38						
Fluoride	1000	500	ug/L	1000		100	90-110	0.3	20	
Chloride	5.23	0.100	mg/L	5.00		105	90-110	0.2	20	
Nitrite as N	4970	100	ug/L	5000		99	90-110	0.02	20	
Bromide	4800	400	ug/L	5000		96	90-110	0.2	20	
Nitrate as N	5.32	0.100	mg/L	5.00		106	90-110	0.2	20	
Sulfate	5.29	0.10	mg/L	5.00		106	90-110	1	20	
Duplicate (B430248-DUP1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30 Analyzed: 07/24/24 21:30						
Fluoride	1080	500	ug/L		1080			0.05	20	
Chloride	162	2.50	mg/L		162			0.1	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	596	400	ug/L		599			0.5	20	
Nitrate as N	0.427	0.100	mg/L		0.431			0.8	20	
Sulfate	37.4	0.10	mg/L		37.3			0.07	20	
Matrix Spike (B430248-MS1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30 Analyzed: 07/24/24 21:48						
Fluoride	2070	500	ug/L	1000	1080	99	80-120			
Chloride	130	0.100	mg/L	5.00	162	NR	80-120			M
Nitrite as N	4750	100	ug/L	5000	<100	95	80-120			
Bromide	5300	400	ug/L	5000	599	94	80-120			
Nitrate as N	5.47	0.100	mg/L	5.00	0.431	101	80-120			

CPS Energy - Environmental Dept.
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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430248 - EPA 300.0										
Matrix Spike (B430248-MS1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30		Analyzed: 07/24/24 21:48				
Sulfate	43.0	0.10	mg/L	5.00	37.3	113	80-120			
Matrix Spike Dup (B430248-MSD1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30		Analyzed: 07/24/24 22:06				
Fluoride	2070	500	ug/L	1000	1080	98	80-120	0.1	20	
Chloride	130	0.100	mg/L	5.00	162	NR	80-120	0.07	20	M
Nitrite as N	4760	100	ug/L	5000	<100	95	80-120	0.05	20	
Bromide	5320	400	ug/L	5000	599	94	80-120	0.3	20	
Nitrate as N	5.47	0.100	mg/L	5.00	0.431	101	80-120	0.02	20	
Sulfate	43.0	0.10	mg/L	5.00	37.3	113	80-120	0.07	20	

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:10			
Aluminum	<2	2	ug/L						
Antimony	<5	5	ug/L						
Barium	<3	3	ug/L						
Beryllium	<0.5	0.5	ug/L						
Boron	<20	20	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Cobalt	<0.3	0.3	ug/L						
Copper	<2	2	ug/L						
Iron	<7	7	ug/L						
Lead	<0.5	0.5	ug/L						
Magnesium	<20	20	ug/L						
Manganese	<0.5	0.5	ug/L						
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:10					
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						
LCS (B430276-BS1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:17					
Aluminum	963	2	ug/L	1000		96	85-115		
Antimony	104	5	ug/L	100		104	85-115		
Barium	98.2	3	ug/L	100		98	85-115		
Beryllium	96.5	0.5	ug/L	100		97	85-115		
Boron	98.4	20	ug/L	100		98	85-115		
Cadmium	98.6	1	ug/L	100		99	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.4	0.3	ug/L	100		99	85-115		
Copper	96.7	2	ug/L	100		97	85-115		
Iron	931	7	ug/L	1000		93	85-115		
Lead	98.0	0.5	ug/L	100		98	85-115		
Magnesium	965	20	ug/L	1000		97	85-115		
Manganese	96.2	0.5	ug/L	100		96	85-115		
Molybdenum	96.6	1	ug/L	100		97	85-115		
Nickel	100	2	ug/L	100		100	85-115		
Silver	86.8	0.5	ug/L	100		87	85-115		
Thallium	96.1	0.5	ug/L	100		96	85-115		
Tin	98.2	5	ug/L	100		98	85-115		
Titanium	96.6	30	ug/L	100		97	85-115		
Zinc	97.0	5	ug/L	100		97	85-115		
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:20					
Aluminum	976	2	ug/L	1000		98	85-115	1	20
Antimony	104	5	ug/L	100		104	85-115	0.3	20
Barium	98.6	3	ug/L	100		99	85-115	0.4	20
Beryllium	97.7	0.5	ug/L	100		98	85-115	1	20
Boron	99.8	20	ug/L	100		100	85-115	2	20
Cadmium	98.2	1	ug/L	100		98	85-115	0.4	20
Chromium	99.5	3	ug/L	100		99	85-115	2	20
Cobalt	100	0.3	ug/L	100		100	85-115	1	20
Copper	97.5	2	ug/L	100		97	85-115	0.9	20
Iron	952	7	ug/L	1000		95	85-115	2	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:20						
Lead	100	0.5	ug/L	100		100	85-115	2	20	
Magnesium	976	20	ug/L	1000		98	85-115	1	20	
Manganese	98.2	0.5	ug/L	100		98	85-115	2	20	
Molybdenum	98.8	1	ug/L	100		99	85-115	2	20	
Nickel	99.6	2	ug/L	100		100	85-115	0.8	20	
Silver	90.8	0.5	ug/L	100		91	85-115	4	20	
Thallium	99.0	0.5	ug/L	100		99	85-115	3	20	
Tin	99.0	5	ug/L	100		99	85-115	0.8	20	
Titanium	98.2	30	ug/L	100		98	85-115	2	20	
Zinc	98.8	5	ug/L	100		99	85-115	2	20	
Duplicate (B430276-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:27						
Aluminum	35.5	2	ug/L		31.9			11	20	
Antimony	<5	5	ug/L		<5				20	
Barium	52.6	3	ug/L		52.6			0.07	20	
Beryllium	<0.5	0.5	ug/L		<0.5				20	
Boron	967	20	ug/L		987			2	20	
Cadmium	<1	1	ug/L		<1				20	
Chromium	<3	3	ug/L		<3				20	
Cobalt	0.343	0.3	ug/L		0.352			2	20	
Copper	2.32	2	ug/L		2.30			0.9	20	
Iron	111	7	ug/L		101			9	20	
Lead	0.0947	0.5	ug/L		0.103			8	20	
Magnesium	49700	20	ug/L		19600			87	20	S
Manganese	6.20	0.5	ug/L		6.17			0.4	20	
Molybdenum	4.26	1	ug/L		4.66			9	20	
Nickel	5.62	2	ug/L		5.60			0.4	20	
Silver	0.0552	0.5	ug/L		0.221			120	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	3.59	30	ug/L		2.59			32	20	S
Zinc	8.51	5	ug/L		9.22			8	20	
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:31						
Aluminum	1010	2	ug/L	1000	31.9	98	75-125			
Antimony	117	5	ug/L	100	<5	117	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:31				
Barium	156	3	ug/L	100	52.6	103	75-125			
Beryllium	90.7	0.5	ug/L	100	<0.5	91	75-125			
Boron	1040	20	ug/L	100	987	48	75-125			M
Cadmium	102	1	ug/L	100	<1	102	75-125			
Chromium	93.3	3	ug/L	100	<3	93	75-125			
Cobalt	92.8	0.3	ug/L	100	0.352	92	75-125			
Copper	88.3	2	ug/L	100	2.30	86	75-125			
Iron	960	7	ug/L	1000	101	86	75-125			
Lead	107	0.5	ug/L	100	0.103	107	75-125			
Magnesium	49200	20	ug/L	1000	19600	NR	75-125			M
Manganese	95.8	0.5	ug/L	100	6.17	90	75-125			
Molybdenum	106	1	ug/L	100	4.66	101	75-125			
Nickel	93.5	2	ug/L	100	5.60	88	75-125			
Silver	97.0	0.5	ug/L	100	0.221	97	75-125			
Thallium	112	0.5	ug/L	100	<0.5	112	75-125			
Tin	106	5	ug/L	100	<5	106	75-125			
Titanium	101	30	ug/L	100	2.59	98	75-125			
Zinc	104	5	ug/L	100	9.22	95	75-125			
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:35				
Aluminum	1000	2	ug/L	1000	31.9	97	75-125	0.9	20	
Antimony	114	5	ug/L	100	<5	114	75-125	3	20	
Barium	151	3	ug/L	100	52.6	99	75-125	3	20	
Beryllium	90.6	0.5	ug/L	100	<0.5	91	75-125	0.07	20	
Boron	1030	20	ug/L	100	987	46	75-125	0.2	20	M
Cadmium	99.7	1	ug/L	100	<1	100	75-125	2	20	
Chromium	92.5	3	ug/L	100	<3	93	75-125	0.9	20	
Cobalt	92.7	0.3	ug/L	100	0.352	92	75-125	0.01	20	
Copper	89.0	2	ug/L	100	2.30	87	75-125	0.7	20	
Iron	957	7	ug/L	1000	101	86	75-125	0.4	20	
Lead	107	0.5	ug/L	100	0.103	107	75-125	0.6	20	
Magnesium	47600	20	ug/L	1000	19600	NR	75-125	3	20	M
Manganese	95.7	0.5	ug/L	100	6.17	89	75-125	0.1	20	
Molybdenum	105	1	ug/L	100	4.66	100	75-125	0.7	20	
Nickel	94.1	2	ug/L	100	5.60	88	75-125	0.6	20	
Silver	95.9	0.5	ug/L	100	0.221	96	75-125	1	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:35					
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	2	20
Tin	103	5	ug/L	100	<5	103	75-125	3	20
Titanium	99.9	30	ug/L	100	2.59	97	75-125	0.7	20
Zinc	103	5	ug/L	100	9.22	94	75-125	0.5	20

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Blank (B431235-BLK1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:25						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Blank (B431235-BLK1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:25						
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							CL
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*145*		*ug/L*	*200*		*73*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*62.6*		*ug/L*	*100*		*63*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*102*		*ug/L*	*200*		*51*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.3*		*ug/L*	*100*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*78.6*		*ug/L*	*200*		*39*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.8*		*ug/L*	*100*		*86*	*8.46-114*			
LCS (B431235-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46						
1,2,4,5-Tetrachlorobenzene	58.0	20	ug/L	80.0		72	0.449-117			
2,4,5-Trichlorophenol	58.7	50	ug/L	80.0		73	20-108			
2,4,6-Trichlorophenol	59.6	10	ug/L	80.0		75	37-144			
2,4-Dichlorophenol	52.9	10	ug/L	80.0		66	39-135			
2,4-Dimethylphenol	68.5	10	ug/L	80.0		86	32-119			
2,4-Dinitrophenol	71.9	50	ug/L	80.0		90	5-191			
2-Chlorophenol	50.7	10	ug/L	80.0		63	23-134			
o-Cresol	51.0	10	ug/L	80.0		64	8-87			
2-Nitrophenol	75.5	20	ug/L	80.0		94	29-182			CH
3,3´-Dichlorobenzidine	63.4	5	ug/L	80.0		79	4.34-262			
m-Cresol & p-Cresol	52.6	10	ug/L	80.0		66	6-85			
4,6-Dinitro-o-cresol	96.4	50	ug/L	80.0		121	5-181			CH
p-Chloro-m-cresol	56.5	10	ug/L	80.0		71	22-147			
4-Nitrophenol	50.0	50	ug/L	80.0		62	5-132			
Anthracene	61.1	10	ug/L	80.0		76	27-133			
Benz(a)anthracene	59.0	5	ug/L	80.0		74	33-143			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
LCS (B431235-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46						
Benzidine	75.7	50	ug/L	80.0		95	5-73			L
Benzo(a)pyrene	66.8	5	ug/L	80.0		84	17-163			
Bis(2-Chloroethyl)ether	42.9	10	ug/L	80.0		54	12-158			CL
Bis(2-Ethylhexyl)phthalate	55.1	10	ug/L	80.0		69	8-158			
Chrysene	45.7	5	ug/L	80.0		57	17-168			
Di-n-butylphthalate	52.9	10	ug/L	80.0		66	1-118			
Hexachlorobenzene	61.2	5	ug/L	80.0		77	5-152			
Hexachlorobutadiene	42.9	10	ug/L	80.0		54	24-116			
Hexachlorocyclopentadiene	45.5	10	ug/L	80.0		57	12-69			CL
Hexachloroethane	35.7	20	ug/L	80.0		45	40-113			
Nitrobenzene	55.5	10	ug/L	80.0		69	35-180			
N-Nitrosodiethylamine	48.2	20	ug/L	80.0		60	-2.55-178			
N-Nitrosodi-n-butylamine	47.9	20	ug/L	80.0		60	-4.28-193			
Pentachlorobenzene	63.0	20	ug/L	80.0		79	-1.08-131			
Pentachlorophenol	58.0	5	ug/L	80.0		72	14-176			
Phenanthrene	55.4	10	ug/L	80.0		69	54-120			
Phenol	31.3	10	ug/L	80.0		39	5-112			
Pyridine	34.1	20	ug/L	80.0		43	5-73			
Surrogate: 2,4,6-Tribromophenol	*173*		*ug/L*	*200*		*86*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*65.5*		*ug/L*	*100*		*65*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*105*		*ug/L*	*200*		*52*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*69.4*		*ug/L*	*100*		*69*	*8.98-84*			
Surrogate: Phenol-d5	*80.7*		*ug/L*	*200*		*40*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*83.2*		*ug/L*	*100*		*83*	*8.46-114*			
LCS Dup (B431235-BSD1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:08						
1,2,4,5-Tetrachlorobenzene	56.0	20	ug/L	80.0		70	0.449-117	4	25.7	
2,4,5-Trichlorophenol	60.5	50	ug/L	80.0		76	20-108	3	64	
2,4,6-Trichlorophenol	58.7	10	ug/L	80.0		73	37-144	2	67	
2,4-Dichlorophenol	52.9	10	ug/L	80.0		66	39-135	0	70	
2,4-Dimethylphenol	60.9	10	ug/L	80.0		76	32-119	12	72	
2,4-Dinitrophenol	77.3	50	ug/L	80.0		97	5-191	7	142	
2-Chlorophenol	49.9	10	ug/L	80.0		62	23-134	2	67	
o-Cresol	49.7	10	ug/L	80.0		62	8-87	3	59	
2-Nitrophenol	74.1	20	ug/L	80.0		93	29-182	2	66	CH
3,3´-Dichlorobenzidine	67.1	5	ug/L	80.0		84	4.34-262	6	50	

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Report No. 2407429

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
LCS Dup (B431235-BSD1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:08						
m-Cresol & p-Cresol	51.3	10	ug/L	80.0		64	6-85	3	63	
4,6-Dinitro-o-cresol	100	50	ug/L	80.0		125	5-181	4	88	CH
p-Chloro-m-cresol	56.2	10	ug/L	80.0		70	22-147	0.6	66	
4-Nitrophenol	53.0	50	ug/L	80.0		66	5-132	6	84	
Anthracene	61.2	10	ug/L	80.0		77	27-133	0.2	64	
Benz(a)anthracene	61.1	5	ug/L	80.0		76	33-143	3	65	
Benzidine	59.9	50	ug/L	80.0		75	5-73	23	87	L
Benzo(a)pyrene	67.7	5	ug/L	80.0		85	17-163	1	69	
Bis(2-Chloroethyl)ether	37.8	10	ug/L	80.0		47	12-158	13	40	CL
Bis(2-Ethylhexyl)phthalate	61.2	10	ug/L	80.0		76	8-158	10	72	
Chrysene	54.5	5	ug/L	80.0		68	17-168	18	65	
Di-n-butylphthalate	58.8	10	ug/L	80.0		74	1-118	11	68	
Hexachlorobenzene	61.7	5	ug/L	80.0		77	5-152	0.7	69	
Hexachlorobutadiene	40.2	10	ug/L	80.0		50	24-116	6	49	
Hexachlorocyclopentadiene	42.9	10	ug/L	80.0		54	12-69	6	65	CL
Hexachloroethane	33.8	20	ug/L	80.0		42	40-113	5	42	
Nitrobenzene	52.7	10	ug/L	80.0		66	35-180	5	41	
N-Nitrosodiethylamine	45.0	20	ug/L	80.0		56	-2.55-178	7	29	
N-Nitrosodi-n-butylamine	48.8	20	ug/L	80.0		61	-4.28-193	2	37.8	
Pentachlorobenzene	60.6	20	ug/L	80.0		76	-1.08-131	4	25.5	
Pentachlorophenol	60.5	5	ug/L	80.0		76	14-176	4	50	
Phenanthrene	55.6	10	ug/L	80.0		69	54-120	0.3	66	
Phenol	31.0	10	ug/L	80.0		39	5-112	0.8	69	
Pyridine	31.1	20	ug/L	80.0		39	5-73	9	36	
Surrogate: 2,4,6-Tribromophenol	*172*		*ug/L*	*200*		*86*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*66.1*		*ug/L*	*100*		*66*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*100*		*ug/L*	*200*		*50*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*65.0*		*ug/L*	*100*		*65*	*8.98-84*			
Surrogate: Phenol-d5	*79.2*		*ug/L*	*200*		*40*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*86.7*		*ug/L*	*100*		*87*	*8.46-114*			
Matrix Spike (B431235-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:51						
1,2,4,5-Tetrachlorobenzene	90.8	20	ug/L	160	<20	57	26.5-68.5			
2,4,5-Trichlorophenol	103	50	ug/L	160	<50	64	44.1-94.9			
2,4,6-Trichlorophenol	101	10	ug/L	160	<10	63	42.8-89.7			
2,4-Dichlorophenol	86.4	10	ug/L	160	<10	54	42.7-83.2			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Matrix Spike (B431235-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:51						
2,4-Dimethylphenol	111	10	ug/L	160	<10	69	35.5-84.8			
2,4-Dinitrophenol	150	50	ug/L	160	<50	94	12.9-135			
2-Chlorophenol	85.5	10	ug/L	160	<10	53	42.6-73.1			
o-Cresol	84.4	10	ug/L	160	<10	53	45.4-61.4			
2-Nitrophenol	128	20	ug/L	160	<20	80	45.6-74.3			CH M
3,3´-Dichlorobenzidine	112	5	ug/L	160	<5	70	25-203			
m-Cresol & p-Cresol	87.4	10	ug/L	160	<10	55	3-75			
4,6-Dinitro-o-cresol	181	50	ug/L	160	<50	113	26.6-112			CH M
p-Chloro-m-cresol	95.4	10	ug/L	160	<10	60	32.5-89.3			
4-Nitrophenol	97.6	50	ug/L	160	<50	61	8-58			M
Anthracene	108	10	ug/L	160	<10	68	50.1-92.2			
Benz(a)anthracene	109	5	ug/L	160	<5	68	36.3-111			
Benzidine	119	50	ug/L	160	<50	75	15-150			
Benzo(a)pyrene	125	5	ug/L	160	<5	78	27.5-124			
Bis(2-Chloroethyl)ether	63.8	10	ug/L	160	<10	40	38.3-70.8			CL
Bis(2-Ethylhexyl)phthalate	109	10	ug/L	160	<10	68	13.2-168			
Chrysene	101	5	ug/L	160	<5	63	40.6-101			
Di-n-butylphthalate	106	10	ug/L	160	<10	66	27.4-123			
Hexachlorobenzene	106	5	ug/L	160	<5	66	49.6-94.3			
Hexachlorobutadiene	61.4	10	ug/L	160	<10	38	44-74.7			M
Hexachlorocyclopentadiene	70.2	10	ug/L	160	<10	44	47.3-73			CL M
Hexachloroethane	55.7	20	ug/L	160	<20	35	37.1-86.8			M
Nitrobenzene	85.2	10	ug/L	160	<10	53	42.3-89.2			
N-Nitrosodiethylamine	81.0	20	ug/L	160	<20	51	37.4-148			
N-Nitrosodi-n-butylamine	79.3	20	ug/L	160	<20	50	39.8-163			
Pentachlorobenzene	101	20	ug/L	160	<20	63	31.6-77.8			
Pentachlorophenol	118	5	ug/L	160	<5	74	31-117			
Phenanthrene	99.0	10	ug/L	160	<10	62	48.4-95.5			
Phenol	53.8	10	ug/L	160	<10	34	6-39			
Pyridine	48.6	20	ug/L	160	<20	30	4-58			
Surrogate: 2,4,6-Tribromophenol	*308*		*ug/L*	*400*		*77*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*200*		*53*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*175*		*ug/L*	*400*		*44*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*109*		*ug/L*	*200*		*54*	*8.98-84*			
Surrogate: Phenol-d5	*139*		*ug/L*	*400*		*35*	*1.11-63.5*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431235 - EPA 3510C									
Matrix Spike (B431235-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00			Analyzed: 07/31/24 15:51		
Surrogate: Terphenyl-d14	*159*		*ug/L*	*200*		*80*	*8.46-114*		

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431234 - ASTM D7065-11									
Blank (B431234-BLK1)				Prepared: 07/30/24 10:00			Analyzed: 07/31/24 14:25		
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*141*		*ug/L*	*200*		*71*	*5-89.9*		
Surrogate: Phenol-d5	*68.5*		*ug/L*	*200*		*34*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*61.7*		*ug/L*	*100*		*62*	*27-111*		
Surrogate: 2-Fluorophenol	*86.1*		*ug/L*	*200*		*43*	*5-64.3*		
Surrogate: Terphenyl-d14	*79.7*		*ug/L*	*100*		*80*	*5-114*		
Surrogate: Nitrobenzene-d5	*51.1*		*ug/L*	*100*		*51*	*22-117*		
LCS (B431234-BS1)				Prepared: 07/30/24 10:00			Analyzed: 07/31/24 14:46		
Nonylphenol	325	333	ug/L	500		65	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*64.6*		*ug/L*	*100*		*65*	*27-111*		
Surrogate: Phenol-d5	*70.3*		*ug/L*	*200*		*35*	*5-64.3*		
Surrogate: Terphenyl-d14	*77.3*		*ug/L*	*100*		*77*	*5-114*		
Surrogate: 2-Fluorophenol	*88.2*		*ug/L*	*200*		*44*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*57.9*		*ug/L*	*100*		*58*	*22-117*		
LCS Dup (B431234-BSD1)				Prepared: 07/30/24 10:00			Analyzed: 07/31/24 15:08		
Nonylphenol	346	333	ug/L	500		69	32.3-103	6	21.4
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*65.3*		*ug/L*	*100*		*65*	*27-111*		
Surrogate: Phenol-d5	*69.0*		*ug/L*	*200*		*35*	*5-64.3*		
Surrogate: Terphenyl-d14	*80.5*		*ug/L*	*100*		*81*	*5-114*		
Surrogate: 2-Fluorophenol	*84.3*		*ug/L*	*200*		*42*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*54.2*		*ug/L*	*100*		*54*	*22-117*		
Matrix Spike (B431234-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00			Analyzed: 07/31/24 15:51		

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Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431234 - ASTM D7065-11									
Nonylphenol	619	333	ug/L	1000	<333	62	26-117		
Surrogate: 2,4,6-Tribromophenol	*300*		*ug/L*	*400*		*75*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*104*		*ug/L*	*200*		*52*	*27-111*		
Surrogate: Phenol-d5	*121*		*ug/L*	*400*		*30*	*5-64.3*		
Surrogate: Terphenyl-d14	*148*		*ug/L*	*200*		*74*	*5-114*		
Surrogate: 2-Fluorophenol	*147*		*ug/L*	*400*		*37*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*90.9*		*ug/L*	*200*		*45*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Blank (B431310-BLK1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:06					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.298*		*ug/L*	*0.500*		*60*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.198*		*ug/L*	*0.500*		*40*	*10.2-92.4*		
LCS (B431310-BS1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:17					
PCB 1016	3.12	0.2	ug/L	5.00		62	13.9-125		
PCB 1260	3.60	0.2	ug/L	5.00		72	29.3-140		
Surrogate: Decachlorobiphenyl	*0.216*		*ug/L*	*0.500*		*43*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.281*		*ug/L*	*0.500*		*56*	*10.2-92.4*		
LCS Dup (B431310-BSD1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:28					
PCB 1016	2.98	0.2	ug/L	5.00		60	13.9-125	4	29.5
PCB 1260	3.67	0.2	ug/L	5.00		73	29.3-140	2	23.1
Surrogate: Decachlorobiphenyl	*0.221*		*ug/L*	*0.500*		*44*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.287*		*ug/L*	*0.500*		*57*	*10.2-92.4*		

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Matrix Spike (B431310-MS1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00		Analyzed: 08/02/24 20:01			
PCB 1016	2.34	0.2	ug/L	5.00	<0.2	47	23.5-116		
PCB 1260	2.79	0.2	ug/L	5.00	<0.2	56	13.3-134		
Surrogate: Decachlorobiphenyl	*0.363*		*ug/L*	*0.500*		*73*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.269*		*ug/L*	*0.500*		*54*	*10.2-92.4*		
Matrix Spike Dup (B431310-MSD1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00		Analyzed: 08/02/24 20:13			
PCB 1016	2.61	0.2	ug/L	5.00	<0.2	52	23.5-116	11	52
PCB 1260	3.10	0.2	ug/L	5.00	<0.2	62	13.3-134	10	40
Surrogate: Decachlorobiphenyl	*0.389*		*ug/L*	*0.500*		*78*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.282*		*ug/L*	*0.500*		*56*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Blank (B430271-BLK1)				Prepared: 07/25/24 08:19		Analyzed: 07/26/24 07:50			
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						

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Report No. 2407429

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Blank (B430271-BLK1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:50					
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						
Surrogate: 4-Bromofluorobenzene	*48.7*		*ug/L*	*50.0*		*97*	*80-106*		
Surrogate: Dibromofluoromethane	*44.0*		*ug/L*	*50.0*		*88*	*83-118*		
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*98*	*91-109*		
LCS (B430271-BS1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:51					
1,1,1-Trichloroethane	42.8	10	ug/L	50.0		86	70-130		
1,1,2,2-Tetrachloroethane	58.4	10	ug/L	50.0		117	60-140		
1,1,2-Trichloroethane	50.6	10	ug/L	50.0		101	70-130		
1,1-Dichloroethane	43.4	10	ug/L	50.0		87	70-130		
1,1-Dichloroethylene	43.2	10	ug/L	50.0		86	50-150		
1,2-Dibromoethane	<10	10	ug/L	50.0			71.6-124		
o-Dichlorobenzene	53.1	10	ug/L	50.0		106	65-135		
1,2-Dichloroethane	43.9	10	ug/L	50.0		88	70-130		
1,2-Dichloropropane	50.1	10	ug/L	50.0		100	35-165		
m-Dichlorobenzene	53.1	10	ug/L	50.0		106	70-130		
p-Dichlorobenzene	51.7	10	ug/L	50.0		103	65-135		
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0			1-225		

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

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Report No. 2407429

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
LCS (B430271-BS1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:51					
Acrolein	44.8	50	ug/L	50.0		90	60-140		
Acrylonitrile	41.1	50	ug/L	50.0		82	60-140		
Benzene	43.2	10	ug/L	50.0		86	65-135		
Dichlorobromomethane [Bromodichloromethane]	50.5	10	ug/L	50.0		101	65-135		
Bromoform	52.4	10	ug/L	50.0		105	70-130		
Methyl Bromide	39.9	50	ug/L	50.0		80	15-185		
Carbon Tetrachloride	43.1	2	ug/L	50.0		86	70-130		
Chlorobenzene	51.4	10	ug/L	50.0		103	65-135		
Chloroethane	45.2	50	ug/L	50.0		90	40-160		
Chloroform	42.3	10	ug/L	50.0		85	70-135		
Methyl Chloride	48.8	50	ug/L	50.0		98	1-205		
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0		104	70-135		
Ethylbenzene	52.0	10	ug/L	50.0		104	60-140		
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L	50.0			56.5-136		
Dichloromethane [Methylene Chloride]	42.2	20	ug/L	50.0		84	60-140		
Tetrachloroethylene [Tetrachloroethene]	39.2	10	ug/L	50.0		78	70-130		
Toluene	46.8	10	ug/L	50.0		94	70-130		
trans-1,2-Dichloroethylene	42.9	10	ug/L	50.0		86	70-130		
Trichloroethylene [Trichloroethene]	48.3	10	ug/L	50.0		97	65-135		
Vinyl chloride [Chloroethene]	45.9	10	ug/L	50.0		92	5-195		
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/L*	*50.0*		*103*	*80-106*		
Surrogate: Dibromofluoromethane	*47.1*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*47.8*		*ug/L*	*50.0*		*96*	*91-109*		
LCS Dup (B430271-BSD1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:20					
1,1,1-Trichloroethane	43.4	10	ug/L	50.0		87	70-130	1	36
1,1,2,2-Tetrachloroethane	59.7	10	ug/L	50.0		119	60-140	2	61
1,1,2-Trichloroethane	51.5	10	ug/L	50.0		103	70-130	2	45
1,1-Dichloroethane	43.5	10	ug/L	50.0		87	70-130	0.09	40
1,1-Dichloroethylene	43.9	10	ug/L	50.0		88	50-150	2	32
1,2-Dibromoethane	<10	10	ug/L	50.0			71.6-124		20.3
o-Dichlorobenzene	51.8	10	ug/L	50.0		104	65-135	2	57
1,2-Dichloroethane	44.2	10	ug/L	50.0		88	70-130	0.7	49
1,2-Dichloropropane	50.7	10	ug/L	50.0		101	35-165	1	55

CPS Energy - Environmental Dept.
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Report No. 2407429

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
LCS Dup (B430271-BSD1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:20					
m-Dichlorobenzene	51.6	10	ug/L	50.0		103	70-130	3	43
p-Dichlorobenzene	50.6	10	ug/L	50.0		101	65-135	2	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0			1-225		71
Acrolein	48.0	50	ug/L	50.0		96	60-140	7	60
Acrylonitrile	41.7	50	ug/L	50.0		83	60-140	2	60
Benzene	43.4	10	ug/L	50.0		87	65-135	0.4	61
Dichlorobromomethane [Bromodichloromethane]	50.8	10	ug/L	50.0		102	65-135	0.5	56
Bromoform	53.1	10	ug/L	50.0		106	70-130	1	42
Methyl Bromide	41.3	50	ug/L	50.0		83	15-185	3	61
Carbon Tetrachloride	43.8	2	ug/L	50.0		88	70-130	2	41
Chlorobenzene	51.8	10	ug/L	50.0		104	65-135	0.8	53
Chloroethane	45.3	50	ug/L	50.0		91	40-160	0.3	78
Chloroform	42.6	10	ug/L	50.0		85	70-135	0.6	54
Methyl Chloride	48.0	50	ug/L	50.0		96	1-205	2	60
Dibromochloromethane [Chlorodibromomethane]	52.3	10	ug/L	50.0		105	70-135	1	50
Ethylbenzene	52.7	10	ug/L	50.0		105	60-140	1	63
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L	50.0			56.5-136		30.7
Dichloromethane [Methylene Chloride]	42.8	20	ug/L	50.0		86	60-140	1	28
Tetrachloroethylene [Tetrachloroethene]	39.6	10	ug/L	50.0		79	70-130	1	39
Toluene	47.2	10	ug/L	50.0		94	70-130	0.9	41
trans-1,2-Dichloroethylene	42.9	10	ug/L	50.0		86	70-130	0.07	45
Trichloroethylene [Trichloroethene]	49.1	10	ug/L	50.0		98	65-135	2	48
Vinyl chloride [Chloroethene]	46.2	10	ug/L	50.0		92	5-195	0.7	66
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.0*		*ug/L*	*50.0*		*92*	*83-118*		
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95*	*91-109*		
Matrix Spike (B430271-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19 Analyzed: 07/26/24 05:50					
1,1,1-Trichloroethane	42.0	10	ug/L	50.0	<10	84	52-162		
1,1,2,2-Tetrachloroethane	59.7	10	ug/L	50.0	<10	119	46-157		
1,1,2-Trichloroethane	50.2	10	ug/L	50.0	<10	100	52-150		
1,1-Dichloroethane	42.6	10	ug/L	50.0	<10	85	59-155		
1,1-Dichloroethylene	42.2	10	ug/L	50.0	<10	84	1-234		
1,2-Dibromoethane	51.7	10	ug/L	50.0	<10	103	64.7-132		

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Report No. 2407429

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Matrix Spike (B430271-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19		Analyzed: 07/26/24 05:50			
o-Dichlorobenzene	51.7	10	ug/L	50.0	<10	103	18-190		
1,2-Dichloroethane	43.3	10	ug/L	50.0	<10	87	49-155		
1,2-Dichloropropane	49.6	10	ug/L	50.0	<10	99	1-210		
m-Dichlorobenzene	50.2	10	ug/L	50.0	<10	100	59-156		
p-Dichlorobenzene	49.5	10	ug/L	50.0	<10	99	18-190		
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		
Acrolein	41.2	50	ug/L	50.0	<50	82	40-160		
Acrylonitrile	41.4	50	ug/L	50.0	<50	83	40-160		
Benzene	42.0	10	ug/L	50.0	<10	84	37-151		
Dichlorobromomethane [Bromodichloromethane]	49.8	10	ug/L	50.0	<10	100	35-155		
Bromoform	52.3	10	ug/L	50.0	<10	105	45-169		
Methyl Bromide	34.5	50	ug/L	50.0	<50	69	1-242		
Carbon Tetrachloride	42.5	2	ug/L	50.0	<2	85	70-140		
Chlorobenzene	50.7	10	ug/L	50.0	<10	101	37-160		
Chloroethane	44.2	50	ug/L	50.0	<50	88	14-230		
Chloroform	41.6	10	ug/L	50.0	<10	83	51-138		
Methyl Chloride	46.0	50	ug/L	50.0	<50	92	1-273		
Dibromochloromethane [Chlorodibromomethane]	51.1	10	ug/L	50.0	<10	102	53-149		
Ethylbenzene	51.5	10	ug/L	50.0	<10	103	37-162		
Methyl Ethyl Ketone (2-Butanone)	42.1	50	ug/L	50.0	<50	84	41.9-177		
Dichloromethane [Methylene Chloride]	38.4	20	ug/L	50.0	<20	77	1-221		
Tetrachloroethylene [Tetrachloroethene]	37.0	10	ug/L	50.0	<10	74	64-148		
Toluene	45.6	10	ug/L	50.0	<10	91	47-150		
trans-1,2-Dichloroethylene	40.9	10	ug/L	50.0	<10	82	54-156		
Trichloroethylene [Trichloroethene]	47.2	10	ug/L	50.0	<10	94	70-157		
Vinyl chloride [Chloroethene]	46.4	10	ug/L	50.0	<10	93	1-251		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93*	*83-118*		
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95*	*91-109*		
Matrix Spike Dup (B430271-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19		Analyzed: 07/26/24 06:21			
1,1,1-Trichloroethane	42.2	10	ug/L	50.0	<10	84	52-162	0.3	36
1,1,2,2-Tetrachloroethane	58.6	10	ug/L	50.0	<10	117	46-157	2	61
1,1,2-Trichloroethane	49.9	10	ug/L	50.0	<10	100	52-150	0.5	45

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Report No. 2407429

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Matrix Spike Dup (B430271-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:21					
1,1-Dichloroethane	42.9	10	ug/L	50.0	<10	86	59-155	0.7	40
1,1-Dichloroethylene	42.4	10	ug/L	50.0	<10	85	1-234	0.6	32
1,2-Dibromoethane	51.2	10	ug/L	50.0	<10	102	64.7-132	0.9	26.5
o-Dichlorobenzene	50.6	10	ug/L	50.0	<10	101	18-190	2	57
1,2-Dichloroethane	43.2	10	ug/L	50.0	<10	86	49-155	0.1	49
1,2-Dichloropropane	49.4	10	ug/L	50.0	<10	99	1-210	0.3	55
m-Dichlorobenzene	49.9	10	ug/L	50.0	<10	100	59-156	0.6	43
p-Dichlorobenzene	48.6	10	ug/L	50.0	<10	97	18-190	2	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		71
Acrolein	42.9	50	ug/L	50.0	<50	86	40-160	4	60
Acrylonitrile	40.7	50	ug/L	50.0	<50	81	40-160	2	60
Benzene	42.2	10	ug/L	50.0	<10	84	37-151	0.4	61
Dichlorobromomethane [Bromodichloromethane]	49.8	10	ug/L	50.0	<10	100	35-155	0.06	56
Bromoform	52.0	10	ug/L	50.0	<10	104	45-169	0.5	42
Methyl Bromide	37.5	50	ug/L	50.0	<50	75	1-242	9	61
Carbon Tetrachloride	42.5	2	ug/L	50.0	<2	85	70-140	0.02	41
Chlorobenzene	50.3	10	ug/L	50.0	<10	101	37-160	0.7	53
Chloroethane	44.0	50	ug/L	50.0	<50	88	14-230	0.4	78
Chloroform	41.7	10	ug/L	50.0	<10	83	51-138	0.3	54
Methyl Chloride	46.8	50	ug/L	50.0	<50	94	1-273	2	60
Dibromochloromethane [Chlorodibromomethane]	51.2	10	ug/L	50.0	<10	102	53-149	0.2	50
Ethylbenzene	51.0	10	ug/L	50.0	<10	102	37-162	0.9	63
Methyl Ethyl Ketone (2-Butanone)	41.7	50	ug/L	50.0	<50	83	41.9-177	1	21.3
Dichloromethane [Methylene Chloride]	38.6	20	ug/L	50.0	<20	77	1-221	0.4	28
Tetrachloroethylene [Tetrachloroethene]	37.2	10	ug/L	50.0	<10	74	64-148	0.4	39
Toluene	45.8	10	ug/L	50.0	<10	92	47-150	0.4	41
trans-1,2-Dichloroethylene	40.8	10	ug/L	50.0	<10	82	54-156	0.4	45
Trichloroethylene [Trichloroethene]	47.1	10	ug/L	50.0	<10	94	70-157	0.2	48
Vinyl chloride [Chloroethene]	46.8	10	ug/L	50.0	<10	94	1-251	0.9	66
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96*	*91-109*		

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Report No. 2407429

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430281 - EPA 5030B									
Blank (B430281-BLK1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 01:29					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*47.8*		*ug/L*	*50.0*		*96*	*65.7-120*		
Surrogate: Dibromofluoromethane	*41.5*		*ug/L*	*50.0*		*83*	*81.2-126*		
Surrogate: Toluene-d8	*48.5*		*ug/L*	*50.0*		*97*	*87.4-109*		
LCS (B430281-BS1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 00:33					
Dichlorobromomethane [Bromodichloromethane]	48.4	2.50	ug/L	50.0		97	80-120		
Bromoform	49.3	2.50	ug/L	50.0		99	80-120		
Chloroform	40.0	2.50	ug/L	50.0		80	80-120		
Dibromochloromethane [Chlorodibromomethane]	49.6	2.50	ug/L	50.0		99	80-120		
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*43.2*		*ug/L*	*50.0*		*86*	*81.2-126*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*87.4-109*		
LCS Dup (B430281-BSD1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 00:33					
Dichlorobromomethane [Bromodichloromethane]	48.4	2.50	ug/L	50.0		97	80-120	0	20
Bromoform	49.3	2.50	ug/L	50.0		99	80-120	0	20
Chloroform	40.0	2.50	ug/L	50.0		80	80-120	0	20
Dibromochloromethane [Chlorodibromomethane]	49.6	2.50	ug/L	50.0		99	80-120	0	20
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*65.7-120*		
Surrogate: Dibromofluoromethane	*42.8*		*ug/L*	*50.0*		*86*	*81.2-126*		
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.0*		*97*	*87.4-109*		
Matrix Spike (B430281-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15 Analyzed: 07/26/24 05:50					
Dichlorobromomethane [Bromodichloromethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120		
Bromoform	52.3	2.50	ug/L	50.0	<2.50	105	80-120		
Chloroform	41.6	2.50	ug/L	50.0	<2.50	83	80-120		
Dibromochloromethane [Chlorodibromomethane]	51.1	2.50	ug/L	50.0	<2.50	102	80-120		

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12/20/24 10:09
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407429

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430281 - EPA 5030B									
Matrix Spike (B430281-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15		Analyzed: 07/26/24 05:50			
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93*	*81.2-126*		
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95*	*87.4-109*		
Matrix Spike Dup (B430281-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15		Analyzed: 07/26/24 06:21			
Dichlorobromomethane [Bromodichloromethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120	0.06	20
Bromoform	52.0	2.50	ug/L	50.0	<2.50	104	80-120	0.5	20
Chloroform	41.7	2.50	ug/L	50.0	<2.50	83	80-120	0.3	20
Dibromochloromethane [Chlorodibromomethane]	51.2	2.50	ug/L	50.0	<2.50	102	80-120	0.2	20
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96*	*87.4-109*		

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

Reported:
12/20/24 10:09
Received:
07/24/24 13:54

Report No. 2407429

Additional Notes:

This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

SAMPLE QUALIFIERS

Z	Fluoride Value 1.23 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407429-01	CN_Sub
Eurofins - Pittsburgh	2407429-01	Color_SUB

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (Week 2)

Reported:
12/20/24 10:09
Received:
07/24/24 13:54

Report No. 2407429

Additional Notes:

This supersedes the last report (2407429 1-SATL1 FINAL 08 07 24 1905) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2407429
ADDRESS: 12940 US HWY 181 S	ADDRESS:	
CITY: SA STATE: TX ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #: 210.213-7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB ~~Inlet~~ Rc 001PP (week 2)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____ °C; LCS/D:_____|_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____ AUTHORIZE TO PROCEED _____

SAMPLED BY: I. Dotray / K. Cruz

OBSERVED TEMP. 1.4C / CORRECTED TEMP. 1.4C / TEMP. ID GUN # 7 / ☒ SAMPLE ICED YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED: DATE	COLLECTED: TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P. (See Attachment)	PRESERVED WITH: HCl / HNO3 / H2SO4 / NaOH / 3oz / 8oz / 4oz / 5mL / 40mL / PRESERVED IN THE LAB / COMPOSITED IN THE LAB / FILTERED IN THE LAB / FILTERED IN THE FIELD / VOA AIR BUBBLES	REMARKS
1	7-24-24	1000	X									X			VHB 001	25	11895mL										X	XXXXXX	

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
[signature]	7-24-24 1354	[signature]	7-24-24				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Katherine Cruz		Hannah Trapp	1354				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: 001 (Week 2)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407429

Work Order Due by:	08/02/24 17:00 (7 day TAT)		
Received By:	Hannah Thigpen	Date Received:	07/24/24 13:54
Logged In By:	Aimee Landon	Date Logged In:	07/24/24 15:48

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.4°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/17/24 11:27*

SATL#FO001
Revised 09/15/2022

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet
(Process Water Outfalls)	1	CAL/VHB	External	Yes
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes
	3	CAL/VHB	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB	External	Yes
	8	CAL/VHB	External	Yes
	9	CAL/VHB	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Parameters Ordered from SATL: All except 1E, use detection limit from permit applicables

Test America Cn

Notes

Cyanide method OIA 1677

No E. coli sampling at VHB

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, inlet

VHB 4 sample kits needed for each outfall 001, inlet

4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____
(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): _____

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** _____

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
~~Arsenic, total~~					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
~~Mercury, total~~					0.005/0.0005
Nickel, total					2
~~Selenium, total~~					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.:

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] **: Volatile Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: **: Acid Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [redacted] **: Base/Neutral Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

Generated 7/31/2024 5:13:36 AM

JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177476-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

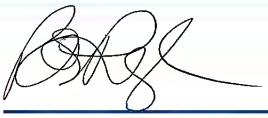
Job Notes

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

PA Lab ID: 02-00416

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

Authorization



Generated
7/31/2024 5:13:36 AM

Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job ID: 180-177476-1 — Eurofins Pittsburgh

Job Narrative
180-177476-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 7/25/2024 9:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177476-1	2407-429-01 (VHB 001)	Water	07/24/24 10:00	07/25/24 09:55

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Client Sample ID: 2407-429-01 (VHB 001)
Lab Sample ID: 180-177476-1
Date Collected: 07/24/24 10:00
Matrix: Water
Date Received: 07/25/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	475111	07/26/24 09:53	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			475384	07/30/24 11:08	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177476-1

Client Sample ID: 2407-429-01 (VHB 001)
Date Collected: 07/24/24 10:00
Date Received: 07/25/24 09:55

Lab Sample ID: 180-177476-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			07/26/24 09:53	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			07/26/24 09:53	1
pH at time of analysis (SM 2120B-2011)	**9.5**		0.10	0.10	SU			07/26/24 09:53	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			07/30/24 11:08	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-475111/1
Matrix: Water
Analysis Batch: 475111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			07/26/24 09:45	1
Color, True	ND		5.0	5.0	Color Units			07/26/24 09:45	1
pH at time of analysis	NA		0.10	0.10	SU			07/26/24 09:45	1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-475384/26
Matrix: Water
Analysis Batch: 475384

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			07/30/24 10:54	1

Lab Sample ID: LCS 180-475384/27
Matrix: Water
Analysis Batch: 475384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	53.1		ug/L		106	82 - 132

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177476-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 475111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177476-1	2407-429-01 (VHB 001)	Total/NA	Water	2120B-2011	
MB 180-475111/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-475111/2	Lab Control Sample	Total/NA	Water	2120B-2011	

Analysis Batch: 475384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177476-1	2407-429-01 (VHB 001)	Total/NA	Water	OIA - 1677	
MB 180-475384/26	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-475384/27	Lab Control Sample	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SAT	COMPANY SAT	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE - ZIP	E-MAIL
ATTN Aimee Landon PHONE # 210-229-9920	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☐ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐

Field: pH _____; Temp:_____ °C; LCS/D._____|_____; Dup:_____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☐ YES ☐ NO
PROPER CONTAINERS INTACT ☐ YES ☐ NO

INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ☐ YES ☐ NO AUTHORIZE TO PROCEED _____
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____

SAMPLED BY

OBSERVED TEMP. / CORRECTED TEMP / TEMP IR GUN # / SAMPLE ICED ☐ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	ANALYSIS REQUESTED: BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 6 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	CW 9 VOA Labs 01-4-16-24 Color Conductivity alpha 2001	PRESERVED WITH: HCl / H2SO4 / HNO3 / NaOH / ZnAc / MeOH / NONE	REMARKS
1	7/24/24	1000	X									X			2407-1129-01 (VHB001)	2	250ml										X		

180-177476 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
	7/24/24		7-25-24				
RELINQUISHED BY (PRINT NAME) Aimee Landon	DATE / TIME 1700	RECEIVED BY (PRINT NAME) Keenya Rucker	DATE / TIME 0955	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT		SUBCONTRACTED ☐ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☐		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

FORM: COC REV 09/2022

WHITE - LAB CANARY - CLIENT

Page 32 of 34

8/2/2024

about:blank

MARCELA HAWK
210-229-9920
MARCELA HAWK
1610 S. LAREDO STREET
SAN ANTONIO TX 78207

9 LBS

1 OF

SHIP TO:
SAMPLE RECEIVING
EUROFINS PITTSBURGH
301 ALPHA DRIVE RIDC PARK
PITTSBURGH PA 15238

PA 152 9-22

UPS NEXT DAY AIR

TRACKING #: 1Z 785 26E 01 9304 1264

1

Uncorrected temp 0.9 °C
Thermometer ID 24

CF -0.4 Initials

PT-WI-SR-001 effective 11/8/18

BILLING: P/P

XOL 24.07.06 NV45 30.0A 07/2024*

180-177476 Waybill

1/1

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177476-1

Login Number: 177476

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

December 20, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407428
RE: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/24/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:

This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB Inlet	2407428-01	Liquid	Grab	07/24/24 09:15	07/24/24 13:54

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2407428-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	17.8	mg/L	0.10	SM 5310C	B432171	08/02/24 17:37	SM5310C	SG	
Total Alkalinity *	392	mg/L as CaCO3	20.0	SM2320B	B432190	08/05/24 16:15	SM2320B	JA	
Ammonia-Nitrogen *	1.68	mg/L	1.00	SM4500NH3B	B431381	08/01/24 17:06	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	3.36	mg/L	1.00	EPA 351.3	B432189	08/05/24 14:00	EPA 351.3	JA	
Total Organic Nitrogen	1.68	mg/L	1.00	[CALC]	[CALC]	08/05/24 14:00	CALC	JA	
Sulfide *	<100	ug/L	100	EPA 376.2	B432177	07/25/24 09:30	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B430314	07/25/24 16:30	SM5540C	SG	
Total Dissolved Solids *	1510	mg/L	8.33	SM2540C	B431262	07/29/24 09:10	SM2540C	DD	
Total Suspended Solids *	9.78	mg/L	5.56	SM2540D	B431316	07/31/24 09:00	SM2540D	DD	
COD *	64.1	mg/L	5.00	H8000	B431383	08/02/24 16:57	H8000	DD	
pH *	9.14	pH Units	0.01	SM4500HB	B432169	07/25/24 09:00	SM4500HB	JA	H
pH measured @Temperature >>	69.3	°F	0.100	SM4500HB	B432169	07/25/24 09:00	SM2550B	JA	H
BOD-5 *	3.90	mg/L	2.00	SM5210B	B431245	07/30/24 13:08	SM5210B	DD	
CBOD *	4.98	mg/L	2.00	SM5210B	B431246	07/30/24 13:08	SM5210B	DD	
Dissolved Oxygen *	9.34	mg/L	2.00	EPA 360.1	B430279	07/25/24 16:01	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B431327	08/02/24 16:40	EPA 1664A	DD	Q, Q1
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B432188	08/05/24 16:36	EPA 377.1	JA	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B432178	07/25/24 09:50	I-1230-85	JA	
Residual Chlorine *	0.02	mg/L	0.01	SM4500ClG	B432176	07/25/24 09:05	SM4500ClG	JA	
Total Phosphorous *	0.52	mg/L	0.05	EPA 365.3	B432180	08/02/24 12:40	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1220	ug/L	500	EPA 300.0	B430248	07/24/24 23:53	EPA 300.0	JA	Z
Chloride *	653	mg/L	5.00	EPA 300.0	B430248	07/24/24 23:53	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B430248	07/24/24 23:35	EPA 300.0	JA	
Bromide *	9190	ug/L	400	EPA 300.0	B430248	07/24/24 23:53	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B430248	07/24/24 23:53	EPA 300.0	JA	
Sulfate *	150	mg/L	5.00	EPA 300.0	B430248	07/24/24 23:53	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	07/24/24 23:53	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407428-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/24/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									
Aluminum *	39	ug/L	2	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Barium *	52	ug/L	3	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Boron *	971	ug/L	20	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Cobalt *	0.3	ug/L	0.3	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Copper *	3	ug/L	2	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Iron *	82	ug/L	7	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Magnesium *	3040	ug/L	20	EPA 200.8	B430276	07/26/24 18:24	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Nickel *	5	ug/L	2	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Zinc *	8	ug/L	5	EPA 200.8	B430276	07/26/24 18:03	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	07/26/24 18:03	CALC	JA	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	

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Project Manager: Chelsey Vasbinder
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12/20/24 10:07
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07/24/24 13:54

Additional Notes:
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Report No. 2407428

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407428-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/24/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	CL
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B431235	07/31/24 15:29	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*61 %*	*18.3-110*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*45 %*	*15.6-80.4*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*40 %*	*2.8-70.6*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*49 %*	*8.98-84*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*32 %*	*1.11-63.5*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*74 %*	*8.46-114*		*EPA 3510C*	*B431235*	*07/31/24 15:29*	*EPA 625.1*	*ME*	

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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407428-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/24/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B431234	07/31/24 15:29	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*60 %*		*5-89.9*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*44 %*		*27-111*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*28 %*		*5-64.3*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*34 %*		*5-64.3*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*69 %*		*5-114*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*41 %*		*22-117*	*ASTM D7065-11*	*B431234*	*07/31/24 15:29*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 19:39	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*68 %*		*15.3-112*	*EPA 608.3*	*B431310*	*08/02/24 19:39*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*52 %*		*10.2-92.4*	*EPA 608.3*	*B431310*	*08/02/24 19:39*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
1,3-Dichloropropylene [1,3-Dichloropr	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Acrolein *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Benzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Bromoform *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	

CPS Energy - Environmental Dept.
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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12/20/24 10:07
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07/24/24 13:54

Additional Notes:
This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2407428-01**

Sample Matrix: Liquid **Date/Time Collected: 07/24/24 09:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Chloroethane *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Chloroform *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Toluene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B430271	07/26/24 10:15	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*100 %*		*80-106*	*EPA 624.1*	*B430271*	*07/26/24 10:15*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*91 %*		*83-118*	*EPA 624.1*	*B430271*	*07/26/24 10:15*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*98 %*		*91-109*	*EPA 624.1*	*B430271*	*07/26/24 10:15*	*EPA 624.1*	*TB*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 09:47	EPA 624.1	TB	
Bromoform *	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 09:47	EPA 624.1	TB	
Chloroform *	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 09:47	EPA 624.1	TB	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 5030B	B430281	07/26/24 09:47	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	EPA 5030B	B430281	07/26/24 09:47	EPA 624.1	TB	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	07/26/24 09:47	EPA 624.1	TB	
Surrogate: 4-Bromofluorobenzene	*100 %*		*65.7-120*	*EPA 5030B*	*B430281*	*07/26/24 10:15*	*EPA 624.1*	*TB*	
Surrogate: Dibromofluoromethane	*92 %*		*81.2-126*	*EPA 5030B*	*B430281*	*07/26/24 09:47*	*EPA 624.1*	*TB*	
Surrogate: Toluene-d8	*98 %*		*87.4-109*	*EPA 5030B*	*B430281*	*07/26/24 09:47*	*EPA 624.1*	*TB*	

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Report No. 2407428

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430279 - EPA 360.1										
Duplicate (B430279-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 16:00		Analyzed: 07/25/24 16:02				
Dissolved Oxygen	9.35	2.00	mg/L		9.34			0.1	20	H, UA
Batch B430314 - SM5540 C										
Blank (B430314-BLK1)				Prepared: 07/25/24 14:00		Analyzed: 07/25/24 16:30				
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L							
LCS (B430314-BS1)				Prepared: 07/25/24 14:00		Analyzed: 07/25/24 16:30				
MBAS, calculated as LAS, mol wt (288)	240	200	ug/L	250		96	80-120			
LCS Dup (B430314-BSD1)				Prepared: 07/25/24 14:00		Analyzed: 07/25/24 16:30				
MBAS, calculated as LAS, mol wt (288)	241	200	ug/L	250		96	80-120	0.4	20	
Duplicate (B430314-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 14:00		Analyzed: 07/25/24 16:30				
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20	
Batch B431245 - SM5210B										
Blank (B431245-BLK1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:00				
BOD-5	<2.00	2.00	mg/L							
LCS (B431245-BS1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:02				
BOD-5	188	2.00	mg/L	200		94	80-120			
LCS (B431245-BS2)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:04				
BOD-5	196	2.00	mg/L	200		98	80-120			
LCS (B431245-BS3)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:06				
BOD-5	174	2.00	mg/L	200		87	80-120			
Duplicate (B431245-DUP1)		**Source: 2407432-01**		Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:14				
BOD-5	153	2.00	mg/L		144			6	20	
Batch B431246 - SM5210B										
Blank (B431246-BLK1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:00				
CBOD	<2.00	2.00	mg/L							

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431246 - SM5210B									
LCS (B431246-BS1)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:02			
CBOD	188	2.00	mg/L	200		94	80-120		
LCS (B431246-BS2)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:04			
CBOD	196	2.00	mg/L	200		98	80-120		
LCS (B431246-BS3)				Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:06			
CBOD	174	2.00	mg/L	200		87	80-120		
Duplicate (B431246-DUP1)		**Source: 2407429-01**		Prepared: 07/25/24 15:00		Analyzed: 07/30/24 13:10			
CBOD	6.01	2.00	mg/L		6.05			0.7	20
Batch B431262 - SM2540C									
Blank (B431262-BLK1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:00			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B431262-BS1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:01			
Total Dissolved Solids	96.0	2.50	mg/L	100		96	80-120		
LCS Dup (B431262-BSD1)				Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:02			
Total Dissolved Solids	98.0	2.50	mg/L	100		98	80-120	2	20
Duplicate (B431262-DUP1)		**Source: 2407388-01**		Prepared: 07/26/24 09:00		Analyzed: 07/29/24 09:03			
Total Dissolved Solids	7700	83.3	mg/L		7470			3	20
Batch B431316 - SM2540D									
Blank (B431316-BLK1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 13:25			
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B431316-BS1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 13:26			
Total Suspended Solids	106	25.0	mg/L	100		106	80-120		
LCS Dup (B431316-BSD1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 13:27			
Total Suspended Solids	100	25.0	mg/L	100		100	80-120	6	20
Duplicate (B431316-DUP1)		**Source: 2407546-02**		Prepared: 08/01/24 10:30		Analyzed: 08/01/24 13:36			
Total Suspended Solids	87.6	10.0	mg/L		81.6			7	20
Batch B431327 - EPA 1664A									

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Batch B431327 - EPA 1664A									
Blank (B431327-BLK1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B431327-BS1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	33.1	4.75	mg/L	40.0		83	78-114		
LCS Dup (B431327-BSD1)				Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	34.6	4.75	mg/L	40.0		86	78-114	4	18
Matrix Spike (B431327-MS1)		**Source: 2407564-02**		Prepared: 08/01/24 15:00 Analyzed: 08/01/24 16:49					
Oil & Grease (HEM)	38.1	5.59	mg/L	47.1	1.06	79	78-114		
Matrix Spike (B431327-MS2)		**Source: 2407429-01**		Prepared: 08/01/24 15:00 Analyzed: 08/02/24 16:40					
Oil & Grease (HEM)	40.1	4.75	mg/L	40.0	<4.75	100	78-114		
Batch B431381 - SM4500NH3B									
Blank (B431381-BLK1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:00					
Ammonia-Nitrogen	<1.00	1.00	mg/L						
LCS (B431381-BS1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:01					
Ammonia-Nitrogen	16.8	1.00	mg/L	20.0		84	80-120		
LCS Dup (B431381-BSD1)				Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:02					
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	18	20
Duplicate (B431381-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:03					
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20
Matrix Spike (B431381-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:04					
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120		
Matrix Spike Dup (B431381-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00 Analyzed: 08/01/24 17:08					
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120	0	200
Batch B431383 - H8000									
Blank (B431383-BLK1)				Prepared: 08/02/24 13:00 Analyzed: 08/02/24 16:50					
COD	<5.00	5.00	mg/L						
LCS (B431383-BS1)				Prepared: 08/02/24 13:00 Analyzed: 08/02/24 16:51					

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Batch B431383 - H8000										
LCS (B431383-BS1)				Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:51				
COD	45.1	5.00	mg/L	50.0		90	80-120			
LCS Dup (B431383-BSD1)				Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:52				
COD	42.3	5.00	mg/L	50.0		85	80-120	6	20	
Duplicate (B431383-DUP1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:53				
COD	62.7	5.00	mg/L		64.1			2	20	
Matrix Spike (B431383-MS1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:54				
COD	106	5.00	mg/L	50.0	64.1	85	80-120			
Matrix Spike Dup (B431383-MSD1)		**Source: 2407428-01**		Prepared: 08/02/24 13:00		Analyzed: 08/02/24 16:55				
COD	106	5.00	mg/L	50.0	64.1	84	80-120	0.3	20	
Batch B432169 - SM4500HB										
LCS (B432169-BS1)				Prepared: 07/25/24 08:45		Analyzed: 07/25/24 08:45				
pH	7.08	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	20.4	0.100	°F				0-200			
Duplicate (B432169-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 08:45		Analyzed: 07/25/24 09:05				
pH	9.20	0.01	pH Units		9.14			0.7	20	H
pH measured @Temperature >>	20.7	0.100	°F		69.3			108	30	H S
Batch B432171 - SM 5310C										
Blank (B432171-BLK1)				Prepared: 08/02/24 10:00		Analyzed: 08/02/24 16:16				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B432171-BS1)				Prepared: 08/02/24 10:00		Analyzed: 08/02/24 16:43				
Total Organic Carbon	4.45	0.10	mg/L	5.00		89	80-120			
LCS Dup (B432171-BSD1)				Prepared: 08/02/24 10:00		Analyzed: 08/02/24 17:09				
Total Organic Carbon	4.38	0.10	mg/L	5.00		88	80-120	2	20	
Duplicate (B432171-DUP1)		**Source: 2407428-01**		Prepared: 08/02/24 10:00		Analyzed: 08/02/24 18:07				
Total Organic Carbon	17.6	1.00	mg/L		17.8			2	20	
Matrix Spike (B432171-MS1)		**Source: 2407428-01**		Prepared: 08/02/24 10:00		Analyzed: 08/02/24 18:38				
Total Organic Carbon	17.2	0.10	mg/L	5.00	17.8	NR	70-130			M

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Batch B432171 - SM 5310C										
Matrix Spike Dup (B432171-MSD1)		**Source: 2407428-01**		Prepared: 08/02/24 10:00		Analyzed: 08/02/24 19:10				
Total Organic Carbon	17.3	0.10	mg/L	5.00	17.8	NR	70-130	1	20	M
Batch B432176 - SM4500ClG										
Blank (B432176-BLK1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432176-BS1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Residual Chlorine	0.259	0.01	mg/L	0.250		104	80-120			
LCS Dup (B432176-BSD1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Residual Chlorine	0.251	0.01	mg/L	0.250		100	80-120	3	20	
Duplicate (B432176-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:10				
Residual Chlorine	0.0210	0.01	mg/L		0.0200			5	20	
Matrix Spike (B432176-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:10				
Residual Chlorine	0.139	0.01	mg/L	0.250	0.0200	48	80-120			M
Matrix Spike Dup (B432176-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:10				
Residual Chlorine	0.135	0.01	mg/L	0.250	0.0200	46	80-120	3	20	M
Batch B432177 - EPA 376.2										
Blank (B432177-BLK1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Sulfide	<100	100	ug/L							
LCS (B432177-BS1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Sulfide	96.0	100	ug/L	100		96	80-120			
LCS Dup (B432177-BSD1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:00				
Sulfide	101	100	ug/L	100		101	80-120	5	20	
Duplicate (B432177-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:40				
Sulfide	<100	100	ug/L		<100				20	
Matrix Spike (B432177-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:40				
Sulfide	93.0	100	ug/L	100	<100	93	70-130			
Matrix Spike Dup (B432177-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:40				

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Batch B432177 - EPA 376.2										
Matrix Spike Dup (B432177-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:40				
Sulfide	96.0	100	ug/L	100	<100	96	70-130	3	30	
Batch B432178 - I-1230-85										
Blank (B432178-BLK1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:30				
Hexavalent Chromium	<3	3	ug/L							
LCS (B432178-BS1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:30				
Hexavalent Chromium	426	3	ug/L	400		106	90-110			
LCS Dup (B432178-BSD1)				Prepared: 07/25/24 09:00		Analyzed: 07/25/24 09:30				
Hexavalent Chromium	422	3	ug/L	400		106	90-110	0.9	20	
Duplicate (B432178-DUP1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	<3	3	ug/L		<3				20	
Matrix Spike (B432178-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	381	3	ug/L	400	<3	95	80-120			
Matrix Spike Dup (B432178-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 09:00		Analyzed: 07/25/24 10:00				
Hexavalent Chromium	384	3	ug/L	400	<3	96	80-120	0.8	20	
Batch B432180 - EPA 365.3										
Blank (B432180-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B432180-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.483	0.05	mg/L	0.500		97	80-120			
LCS Dup (B432180-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.459	0.05	mg/L	0.500		92	80-120	5	20	
Duplicate (B432180-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.503	0.05	mg/L		0.543			8	20	
Matrix Spike (B432180-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.543	39	80-120			M
Matrix Spike Dup (B432180-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				

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Batch B432180 - EPA 365.3										
Matrix Spike Dup (B432180-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.767	0.05	mg/L	0.500	0.543	45	80-120	4	20	M
Batch B432188 - SM4500-SO3(B)										
Blank (B432188-BLK1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:30				
Sulfite	<1000	1000	ug/L							
LCS (B432188-BS1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:32				
Sulfite	9000	1000	ug/L	10000		90	80-120			
LCS Dup (B432188-BSD1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:34				
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20	
Duplicate (B432188-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:40				
Sulfite	<1000	1000	ug/L		<1000				20	
Batch B432189 - EPA 351.3										
Blank (B432189-BLK1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L							
LCS (B432189-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120			
LCS Dup (B432189-BSD1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	0	20	
Duplicate (B432189-DUP1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	2.80	1.00	mg/L		3.36			18	20	
Matrix Spike (B432189-MS1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	3.36	90	80-120			
Matrix Spike Dup (B432189-MSD1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00				
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	3.36	104	80-120	12	20	
Batch B432190 - SM2320B										
Blank (B432190-BLK1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:00				
Total Alkalinity	<20.0	20.0	mg/L as CaCO3							

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Batch B432190 - SM2320B									
LCS (B432190-BS1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:02			
Total Alkalinity	96.0	20.0	mg/L as CaCO3	100		96	80-120		
LCS Dup (B432190-BSD1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:04			
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120	4	20
Duplicate (B432190-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:30			
Total Alkalinity	392	20.0	mg/L as CaCO3		388			1	20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430248 - EPA 300.0									
Blank (B430248-BLK1)				Prepared: 07/24/24 16:30		Analyzed: 07/24/24 17:02			
Fluoride	<500	500	ug/L						
Chloride	<0.100	0.100	mg/L						
Nitrite as N	<100	100	ug/L						
Bromide	<400	400	ug/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B430248-BS1)				Prepared: 07/24/24 16:30		Analyzed: 07/24/24 17:20			
Fluoride	1000	500	ug/L	1000		100	90-110		
Chloride	5.24	0.100	mg/L	5.00		105	90-110		
Nitrite as N	4970	100	ug/L	5000		99	90-110		
Bromide	4810	400	ug/L	5000		96	90-110		
Nitrate as N	5.33	0.100	mg/L	5.00		107	90-110		
Sulfate	5.36	0.10	mg/L	5.00		107	90-110		
LCS Dup (B430248-BSD1)				Prepared: 07/24/24 16:30		Analyzed: 07/24/24 17:38			
Fluoride	1000	500	ug/L	1000		100	90-110	0.3	20
Chloride	5.23	0.100	mg/L	5.00		105	90-110	0.2	20
Nitrite as N	4970	100	ug/L	5000		99	90-110	0.02	20
Bromide	4800	400	ug/L	5000		96	90-110	0.2	20
Nitrate as N	5.32	0.100	mg/L	5.00		106	90-110	0.2	20

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430248 - EPA 300.0										
LCS Dup (B430248-BSD1)				Prepared: 07/24/24 16:30		Analyzed: 07/24/24 17:38				
Sulfate	5.29	0.10	mg/L	5.00		106	90-110	1	20	
Duplicate (B430248-DUP1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30		Analyzed: 07/24/24 21:30				
Fluoride	1080	500	ug/L		1080			0.05	20	
Chloride	162	2.50	mg/L		162			0.1	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	596	400	ug/L		599			0.5	20	
Nitrate as N	0.427	0.100	mg/L		0.431			0.8	20	
Sulfate	37.4	0.10	mg/L		37.3			0.07	20	
Matrix Spike (B430248-MS1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30		Analyzed: 07/24/24 21:48				
Fluoride	2070	500	ug/L	1000	1080	99	80-120			
Chloride	130	0.100	mg/L	5.00	162	NR	80-120			M
Nitrite as N	4750	100	ug/L	5000	<100	95	80-120			
Bromide	5300	400	ug/L	5000	599	94	80-120			
Nitrate as N	5.47	0.100	mg/L	5.00	0.431	101	80-120			
Sulfate	43.0	0.10	mg/L	5.00	37.3	113	80-120			
Matrix Spike Dup (B430248-MSD1)		**Source: 2407410-01**		Prepared: 07/24/24 16:30		Analyzed: 07/24/24 22:06				
Fluoride	2070	500	ug/L	1000	1080	98	80-120	0.1	20	
Chloride	130	0.100	mg/L	5.00	162	NR	80-120	0.07	20	M
Nitrite as N	4760	100	ug/L	5000	<100	95	80-120	0.05	20	
Bromide	5320	400	ug/L	5000	599	94	80-120	0.3	20	
Nitrate as N	5.47	0.100	mg/L	5.00	0.431	101	80-120	0.02	20	
Sulfate	43.0	0.10	mg/L	5.00	37.3	113	80-120	0.07	20	

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:10				
Aluminum	<2	2	ug/L							
Antimony	<5	5	ug/L							
Barium	<3	3	ug/L							

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
Blank (B430276-BLK1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:10					
Beryllium	<0.5	0.5	ug/L						
Boron	<20	20	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Cobalt	<0.3	0.3	ug/L						
Copper	<2	2	ug/L						
Iron	<7	7	ug/L						
Lead	<0.5	0.5	ug/L						
Magnesium	<20	20	ug/L						
Manganese	<0.5	0.5	ug/L						
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						
LCS (B430276-BS1)				Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:17					
Aluminum	963	2	ug/L	1000		96	85-115		
Antimony	104	5	ug/L	100		104	85-115		
Barium	98.2	3	ug/L	100		98	85-115		
Beryllium	96.5	0.5	ug/L	100		97	85-115		
Boron	98.4	20	ug/L	100		98	85-115		
Cadmium	98.6	1	ug/L	100		99	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.4	0.3	ug/L	100		99	85-115		
Copper	96.7	2	ug/L	100		97	85-115		
Iron	931	7	ug/L	1000		93	85-115		
Lead	98.0	0.5	ug/L	100		98	85-115		
Magnesium	965	20	ug/L	1000		97	85-115		
Manganese	96.2	0.5	ug/L	100		96	85-115		
Molybdenum	96.6	1	ug/L	100		97	85-115		
Nickel	100	2	ug/L	100		100	85-115		
Silver	86.8	0.5	ug/L	100		87	85-115		
Thallium	96.1	0.5	ug/L	100		96	85-115		

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430276 - EPA 200.8									
LCS (B430276-BS1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:17			
Tin	98.2	5	ug/L	100		98	85-115		
Titanium	96.6	30	ug/L	100		97	85-115		
Zinc	97.0	5	ug/L	100		97	85-115		
LCS Dup (B430276-BSD1)				Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:20			
Aluminum	976	2	ug/L	1000		98	85-115	1	20
Antimony	104	5	ug/L	100		104	85-115	0.3	20
Barium	98.6	3	ug/L	100		99	85-115	0.4	20
Beryllium	97.7	0.5	ug/L	100		98	85-115	1	20
Boron	99.8	20	ug/L	100		100	85-115	2	20
Cadmium	98.2	1	ug/L	100		98	85-115	0.4	20
Chromium	99.5	3	ug/L	100		99	85-115	2	20
Cobalt	100	0.3	ug/L	100		100	85-115	1	20
Copper	97.5	2	ug/L	100		97	85-115	0.9	20
Iron	952	7	ug/L	1000		95	85-115	2	20
Lead	100	0.5	ug/L	100		100	85-115	2	20
Magnesium	976	20	ug/L	1000		98	85-115	1	20
Manganese	98.2	0.5	ug/L	100		98	85-115	2	20
Molybdenum	98.8	1	ug/L	100		99	85-115	2	20
Nickel	99.6	2	ug/L	100		100	85-115	0.8	20
Silver	90.8	0.5	ug/L	100		91	85-115	4	20
Thallium	99.0	0.5	ug/L	100		99	85-115	3	20
Tin	99.0	5	ug/L	100		99	85-115	0.8	20
Titanium	98.2	30	ug/L	100		98	85-115	2	20
Zinc	98.8	5	ug/L	100		99	85-115	2	20
Duplicate (B430276-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41		Analyzed: 07/26/24 17:27			
Aluminum	35.5	2	ug/L		31.9			11	20
Antimony	<5	5	ug/L		<5				20
Barium	52.6	3	ug/L		52.6			0.07	20
Beryllium	<0.5	0.5	ug/L		<0.5				20
Boron	967	20	ug/L		987			2	20
Cadmium	<1	1	ug/L		<1				20
Chromium	<3	3	ug/L		<3				20
Cobalt	0.343	0.3	ug/L		0.352			2	20
Copper	2.32	2	ug/L		2.30			0.9	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Duplicate (B430276-DUP1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41	Analyzed: 07/26/24 17:27					
Iron	111	7	ug/L		101			9	20	
Lead	0.0947	0.5	ug/L		0.103			8	20	
Magnesium	49700	20	ug/L		19600			87	20	S
Manganese	6.20	0.5	ug/L		6.17			0.4	20	
Molybdenum	4.26	1	ug/L		4.66			9	20	
Nickel	5.62	2	ug/L		5.60			0.4	20	
Silver	0.0552	0.5	ug/L		0.221			120	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	3.59	30	ug/L		2.59			32	20	S
Zinc	8.51	5	ug/L		9.22			8	20	
Matrix Spike (B430276-MS1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41	Analyzed: 07/26/24 17:31					
Aluminum	1010	2	ug/L	1000	31.9	98	75-125			
Antimony	117	5	ug/L	100	<5	117	75-125			
Barium	156	3	ug/L	100	52.6	103	75-125			
Beryllium	90.7	0.5	ug/L	100	<0.5	91	75-125			
Boron	1040	20	ug/L	100	987	48	75-125			M
Cadmium	102	1	ug/L	100	<1	102	75-125			
Chromium	93.3	3	ug/L	100	<3	93	75-125			
Cobalt	92.8	0.3	ug/L	100	0.352	92	75-125			
Copper	88.3	2	ug/L	100	2.30	86	75-125			
Iron	960	7	ug/L	1000	101	86	75-125			
Lead	107	0.5	ug/L	100	0.103	107	75-125			
Magnesium	49200	20	ug/L	1000	19600	NR	75-125			M
Manganese	95.8	0.5	ug/L	100	6.17	90	75-125			
Molybdenum	106	1	ug/L	100	4.66	101	75-125			
Nickel	93.5	2	ug/L	100	5.60	88	75-125			
Silver	97.0	0.5	ug/L	100	0.221	97	75-125			
Thallium	112	0.5	ug/L	100	<0.5	112	75-125			
Tin	106	5	ug/L	100	<5	106	75-125			
Titanium	101	30	ug/L	100	2.59	98	75-125			
Zinc	104	5	ug/L	100	9.22	95	75-125			
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41	Analyzed: 07/26/24 17:35					
Aluminum	1000	2	ug/L	1000	31.9	97	75-125	0.9	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B430276 - EPA 200.8										
Matrix Spike Dup (B430276-MSD1)		**Source: 2407261-01**		Prepared: 07/26/24 08:41 Analyzed: 07/26/24 17:35						
Antimony	114	5	ug/L	100	<5	114	75-125	3	20	
Barium	151	3	ug/L	100	52.6	99	75-125	3	20	
Beryllium	90.6	0.5	ug/L	100	<0.5	91	75-125	0.07	20	
Boron	1030	20	ug/L	100	987	46	75-125	0.2	20	M
Cadmium	99.7	1	ug/L	100	<1	100	75-125	2	20	
Chromium	92.5	3	ug/L	100	<3	93	75-125	0.9	20	
Cobalt	92.7	0.3	ug/L	100	0.352	92	75-125	0.01	20	
Copper	89.0	2	ug/L	100	2.30	87	75-125	0.7	20	
Iron	957	7	ug/L	1000	101	86	75-125	0.4	20	
Lead	107	0.5	ug/L	100	0.103	107	75-125	0.6	20	
Magnesium	47600	20	ug/L	1000	19600	NR	75-125	3	20	M
Manganese	95.7	0.5	ug/L	100	6.17	89	75-125	0.1	20	
Molybdenum	105	1	ug/L	100	4.66	100	75-125	0.7	20	
Nickel	94.1	2	ug/L	100	5.60	88	75-125	0.6	20	
Silver	95.9	0.5	ug/L	100	0.221	96	75-125	1	20	
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	2	20	
Tin	103	5	ug/L	100	<5	103	75-125	3	20	
Titanium	99.9	30	ug/L	100	2.59	97	75-125	0.7	20	
Zinc	103	5	ug/L	100	9.22	94	75-125	0.5	20	

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Blank (B431235-BLK1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:25						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							
2-Chlorophenol	<10	10	ug/L							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Blank (B431235-BLK1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:25						
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							CL
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*145*		*ug/L*	*200*		*73*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*62.6*		*ug/L*	*100*		*63*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*102*		*ug/L*	*200*		*51*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.3*		*ug/L*	*100*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*78.6*		*ug/L*	*200*		*39*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*85.8*		*ug/L*	*100*		*86*	*8.46-114*			
LCS (B431235-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46						
1,2,4,5-Tetrachlorobenzene	58.0	20	ug/L	80.0		72	0.449-117			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
LCS (B431235-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46						
2,4,5-Trichlorophenol	58.7	50	ug/L	80.0		73	20-108			
2,4,6-Trichlorophenol	59.6	10	ug/L	80.0		75	37-144			
2,4-Dichlorophenol	52.9	10	ug/L	80.0		66	39-135			
2,4-Dimethylphenol	68.5	10	ug/L	80.0		86	32-119			
2,4-Dinitrophenol	71.9	50	ug/L	80.0		90	5-191			
2-Chlorophenol	50.7	10	ug/L	80.0		63	23-134			
o-Cresol	51.0	10	ug/L	80.0		64	8-87			
2-Nitrophenol	75.5	20	ug/L	80.0		94	29-182			CH
3,3´-Dichlorobenzidine	63.4	5	ug/L	80.0		79	4.34-262			
m-Cresol & p-Cresol	52.6	10	ug/L	80.0		66	6-85			
4,6-Dinitro-o-cresol	96.4	50	ug/L	80.0		121	5-181			CH
p-Chloro-m-cresol	56.5	10	ug/L	80.0		71	22-147			
4-Nitrophenol	50.0	50	ug/L	80.0		62	5-132			
Anthracene	61.1	10	ug/L	80.0		76	27-133			
Benz(a)anthracene	59.0	5	ug/L	80.0		74	33-143			
Benzidine	75.7	50	ug/L	80.0		95	5-73			L
Benzo(a)pyrene	66.8	5	ug/L	80.0		84	17-163			
Bis(2-Chloroethyl)ether	42.9	10	ug/L	80.0		54	12-158			CL
Bis(2-Ethylhexyl)phthalate	55.1	10	ug/L	80.0		69	8-158			
Chrysene	45.7	5	ug/L	80.0		57	17-168			
Di-n-butylphthalate	52.9	10	ug/L	80.0		66	1-118			
Hexachlorobenzene	61.2	5	ug/L	80.0		77	5-152			
Hexachlorobutadiene	42.9	10	ug/L	80.0		54	24-116			
Hexachlorocyclopentadiene	45.5	10	ug/L	80.0		57	12-69			CL
Hexachloroethane	35.7	20	ug/L	80.0		45	40-113			
Nitrobenzene	55.5	10	ug/L	80.0		69	35-180			
N-Nitrosodiethylamine	48.2	20	ug/L	80.0		60	-2.55-178			
N-Nitrosodi-n-butylamine	47.9	20	ug/L	80.0		60	-4.28-193			
Pentachlorobenzene	63.0	20	ug/L	80.0		79	-1.08-131			
Pentachlorophenol	58.0	5	ug/L	80.0		72	14-176			
Phenanthrene	55.4	10	ug/L	80.0		69	54-120			
Phenol	31.3	10	ug/L	80.0		39	5-112			
Pyridine	34.1	20	ug/L	80.0		43	5-73			
Surrogate: 2,4,6-Tribromophenol	*173*		*ug/L*	*200*		*86*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*65.5*		*ug/L*	*100*		*65*	*15.6-80.4*			

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Report No. 2407428

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
LCS (B431235-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46						
Surrogate: 2-Fluorophenol	*105*		*ug/L*	*200*		*52*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*69.4*		*ug/L*	*100*		*69*	*8.98-84*			
Surrogate: Phenol-d5	*80.7*		*ug/L*	*200*		*40*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*83.2*		*ug/L*	*100*		*83*	*8.46-114*			
LCS Dup (B431235-BSD1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:08						
1,2,4,5-Tetrachlorobenzene	56.0	20	ug/L	80.0		70	0.449-117	4	25.7	
2,4,5-Trichlorophenol	60.5	50	ug/L	80.0		76	20-108	3	64	
2,4,6-Trichlorophenol	58.7	10	ug/L	80.0		73	37-144	2	67	
2,4-Dichlorophenol	52.9	10	ug/L	80.0		66	39-135	0	70	
2,4-Dimethylphenol	60.9	10	ug/L	80.0		76	32-119	12	72	
2,4-Dinitrophenol	77.3	50	ug/L	80.0		97	5-191	7	142	
2-Chlorophenol	49.9	10	ug/L	80.0		62	23-134	2	67	
o-Cresol	49.7	10	ug/L	80.0		62	8-87	3	59	
2-Nitrophenol	74.1	20	ug/L	80.0		93	29-182	2	66	CH
3,3´-Dichlorobenzidine	67.1	5	ug/L	80.0		84	4.34-262	6	50	
m-Cresol & p-Cresol	51.3	10	ug/L	80.0		64	6-85	3	63	
4,6-Dinitro-o-cresol	100	50	ug/L	80.0		125	5-181	4	88	CH
p-Chloro-m-cresol	56.2	10	ug/L	80.0		70	22-147	0.6	66	
4-Nitrophenol	53.0	50	ug/L	80.0		66	5-132	6	84	
Anthracene	61.2	10	ug/L	80.0		77	27-133	0.2	64	
Benz(a)anthracene	61.1	5	ug/L	80.0		76	33-143	3	65	
Benzidine	59.9	50	ug/L	80.0		75	5-73	23	87	L
Benzo(a)pyrene	67.7	5	ug/L	80.0		85	17-163	1	69	
Bis(2-Chloroethyl)ether	37.8	10	ug/L	80.0		47	12-158	13	40	CL
Bis(2-Ethylhexyl)phthalate	61.2	10	ug/L	80.0		76	8-158	10	72	
Chrysene	54.5	5	ug/L	80.0		68	17-168	18	65	
Di-n-butylphthalate	58.8	10	ug/L	80.0		74	1-118	11	68	
Hexachlorobenzene	61.7	5	ug/L	80.0		77	5-152	0.7	69	
Hexachlorobutadiene	40.2	10	ug/L	80.0		50	24-116	6	49	
Hexachlorocyclopentadiene	42.9	10	ug/L	80.0		54	12-69	6	65	CL
Hexachloroethane	33.8	20	ug/L	80.0		42	40-113	5	42	
Nitrobenzene	52.7	10	ug/L	80.0		66	35-180	5	41	
N-Nitrosodiethylamine	45.0	20	ug/L	80.0		56	-2.55-178	7	29	
N-Nitrosodi-n-butylamine	48.8	20	ug/L	80.0		61	-4.28-193	2	37.8	
Pentachlorobenzene	60.6	20	ug/L	80.0		76	-1.08-131	4	25.5	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
LCS Dup (B431235-BSD1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:08						
Pentachlorophenol	60.5	5	ug/L	80.0		76	14-176	4	50	
Phenanthrene	55.6	10	ug/L	80.0		69	54-120	0.3	66	
Phenol	31.0	10	ug/L	80.0		39	5-112	0.8	69	
Pyridine	31.1	20	ug/L	80.0		39	5-73	9	36	
Surrogate: 2,4,6-Tribromophenol	*172*		*ug/L*	*200*		*86*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*66.1*		*ug/L*	*100*		*66*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*100*		*ug/L*	*200*		*50*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*65.0*		*ug/L*	*100*		*65*	*8.98-84*			
Surrogate: Phenol-d5	*79.2*		*ug/L*	*200*		*40*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*86.7*		*ug/L*	*100*		*87*	*8.46-114*			
Matrix Spike (B431235-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:51						
1,2,4,5-Tetrachlorobenzene	90.8	20	ug/L	160	<20	57	26.5-68.5			
2,4,5-Trichlorophenol	103	50	ug/L	160	<50	64	44.1-94.9			
2,4,6-Trichlorophenol	101	10	ug/L	160	<10	63	42.8-89.7			
2,4-Dichlorophenol	86.4	10	ug/L	160	<10	54	42.7-83.2			
2,4-Dimethylphenol	111	10	ug/L	160	<10	69	35.5-84.8			
2,4-Dinitrophenol	150	50	ug/L	160	<50	94	12.9-135			
2-Chlorophenol	85.5	10	ug/L	160	<10	53	42.6-73.1			
o-Cresol	84.4	10	ug/L	160	<10	53	45.4-61.4			
2-Nitrophenol	128	20	ug/L	160	<20	80	45.6-74.3			CH M
3,3´-Dichlorobenzidine	112	5	ug/L	160	<5	70	25-203			
m-Cresol & p-Cresol	87.4	10	ug/L	160	<10	55	3-75			
4,6-Dinitro-o-cresol	181	50	ug/L	160	<50	113	26.6-112			CH M
p-Chloro-m-cresol	95.4	10	ug/L	160	<10	60	32.5-89.3			
4-Nitrophenol	97.6	50	ug/L	160	<50	61	8-58			M
Anthracene	108	10	ug/L	160	<10	68	50.1-92.2			
Benz(a)anthracene	109	5	ug/L	160	<5	68	36.3-111			
Benzidine	119	50	ug/L	160	<50	75	15-150			
Benzo(a)pyrene	125	5	ug/L	160	<5	78	27.5-124			
Bis(2-Chloroethyl)ether	63.8	10	ug/L	160	<10	40	38.3-70.8			CL
Bis(2-Ethylhexyl)phthalate	109	10	ug/L	160	<10	68	13.2-168			
Chrysene	101	5	ug/L	160	<5	63	40.6-101			
Di-n-butylphthalate	106	10	ug/L	160	<10	66	27.4-123			
Hexachlorobenzene	106	5	ug/L	160	<5	66	49.6-94.3			
Hexachlorobutadiene	61.4	10	ug/L	160	<10	38	44-74.7			M

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Report No. 2407428

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431235 - EPA 3510C										
Matrix Spike (B431235-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:51						
Hexachlorocyclopentadiene	70.2	10	ug/L	160	<10	44	47.3-73			CL M
Hexachloroethane	55.7	20	ug/L	160	<20	35	37.1-86.8			M
Nitrobenzene	85.2	10	ug/L	160	<10	53	42.3-89.2			
N-Nitrosodiethylamine	81.0	20	ug/L	160	<20	51	37.4-148			
N-Nitrosodi-n-butylamine	79.3	20	ug/L	160	<20	50	39.8-163			
Pentachlorobenzene	101	20	ug/L	160	<20	63	31.6-77.8			
Pentachlorophenol	118	5	ug/L	160	<5	74	31-117			
Phenanthrene	99.0	10	ug/L	160	<10	62	48.4-95.5			
Phenol	53.8	10	ug/L	160	<10	34	6-39			
Pyridine	48.6	20	ug/L	160	<20	30	4-58			
Surrogate: 2,4,6-Tribromophenol	*308*		*ug/L*	*400*		*77*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*105*		*ug/L*	*200*		*53*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*175*		*ug/L*	*400*		*44*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*109*		*ug/L*	*200*		*54*	*8.98-84*			
Surrogate: Phenol-d5	*139*		*ug/L*	*400*		*35*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*159*		*ug/L*	*200*		*80*	*8.46-114*			

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431234 - ASTM D7065-11									
Blank (B431234-BLK1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:25					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*141*		*ug/L*	*200*		*71*	*5-89.9*		
Surrogate: Phenol-d5	*68.5*		*ug/L*	*200*		*34*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*61.7*		*ug/L*	*100*		*62*	*27-111*		
Surrogate: 2-Fluorophenol	*86.1*		*ug/L*	*200*		*43*	*5-64.3*		
Surrogate: Terphenyl-d14	*79.7*		*ug/L*	*100*		*80*	*5-114*		
Surrogate: Nitrobenzene-d5	*51.1*		*ug/L*	*100*		*51*	*22-117*		
LCS (B431234-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46					
Nonylphenol	325	333	ug/L	500		65	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*5-89.9*		

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Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431234 - ASTM D7065-11									
LCS (B431234-BS1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 14:46					
Surrogate: 2-Fluorobiphenyl	*64.6*		*ug/L*	*100*		*65*	*27-111*		
Surrogate: Phenol-d5	*70.3*		*ug/L*	*200*		*35*	*5-64.3*		
Surrogate: 2-Fluorophenol	*88.2*		*ug/L*	*200*		*44*	*5-64.3*		
Surrogate: Terphenyl-d14	*77.3*		*ug/L*	*100*		*77*	*5-114*		
Surrogate: Nitrobenzene-d5	*57.9*		*ug/L*	*100*		*58*	*22-117*		
LCS Dup (B431234-BSD1)				Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:08					
Nonylphenol	346	333	ug/L	500		69	32.3-103	6	21.4
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*5-89.9*		
Surrogate: Phenol-d5	*69.0*		*ug/L*	*200*		*35*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*65.3*		*ug/L*	*100*		*65*	*27-111*		
Surrogate: 2-Fluorophenol	*84.3*		*ug/L*	*200*		*42*	*5-64.3*		
Surrogate: Terphenyl-d14	*80.5*		*ug/L*	*100*		*81*	*5-114*		
Surrogate: Nitrobenzene-d5	*54.2*		*ug/L*	*100*		*54*	*22-117*		
Matrix Spike (B431234-MS1)		**Source: 2407428-01**		Prepared: 07/30/24 10:00 Analyzed: 07/31/24 15:51					
Nonylphenol	619	333	ug/L	1000	<333	62	26-117		
Surrogate: 2,4,6-Tribromophenol	*300*		*ug/L*	*400*		*75*	*5-89.9*		
Surrogate: Phenol-d5	*121*		*ug/L*	*400*		*30*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*104*		*ug/L*	*200*		*52*	*27-111*		
Surrogate: Terphenyl-d14	*148*		*ug/L*	*200*		*74*	*5-114*		
Surrogate: 2-Fluorophenol	*147*		*ug/L*	*400*		*37*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*90.9*		*ug/L*	*200*		*45*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Blank (B431310-BLK1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:06					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Blank (B431310-BLK1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:06					
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.298*		*ug/L*	*0.500*		*60*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.198*		*ug/L*	*0.500*		*40*	*10.2-92.4*		
LCS (B431310-BS1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:17					
PCB 1016	3.12	0.2	ug/L	5.00		62	13.9-125		
PCB 1260	3.60	0.2	ug/L	5.00		72	29.3-140		
Surrogate: Decachlorobiphenyl	*0.216*		*ug/L*	*0.500*		*43*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.281*		*ug/L*	*0.500*		*56*	*10.2-92.4*		
LCS Dup (B431310-BSD1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:28					
PCB 1016	2.98	0.2	ug/L	5.00		60	13.9-125	4	29.5
PCB 1260	3.67	0.2	ug/L	5.00		73	29.3-140	2	23.1
Surrogate: Decachlorobiphenyl	*0.221*		*ug/L*	*0.500*		*44*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.287*		*ug/L*	*0.500*		*57*	*10.2-92.4*		
Matrix Spike (B431310-MS1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:01					
PCB 1016	2.34	0.2	ug/L	5.00	<0.2	47	23.5-116		
PCB 1260	2.79	0.2	ug/L	5.00	<0.2	56	13.3-134		
Surrogate: Decachlorobiphenyl	*0.363*		*ug/L*	*0.500*		*73*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.269*		*ug/L*	*0.500*		*54*	*10.2-92.4*		
Matrix Spike Dup (B431310-MSD1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:13					
PCB 1016	2.61	0.2	ug/L	5.00	<0.2	52	23.5-116	11	52
PCB 1260	3.10	0.2	ug/L	5.00	<0.2	62	13.3-134	10	40
Surrogate: Decachlorobiphenyl	*0.389*		*ug/L*	*0.500*		*78*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.282*		*ug/L*	*0.500*		*56*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Blank (B430271-BLK1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:50					
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						

CPS Energy - Environmental Dept.
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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Report No. 2407428

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Blank (B430271-BLK1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:50					
Surrogate: 4-Bromofluorobenzene	*48.7*		*ug/L*	*50.0*		*97*	*80-106*		
Surrogate: Dibromofluoromethane	*44.0*		*ug/L*	*50.0*		*88*	*83-118*		
Surrogate: Toluene-d8	*48.8*		*ug/L*	*50.0*		*98*	*91-109*		
LCS (B430271-BS1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:51					
1,1,1-Trichloroethane	42.8	10	ug/L	50.0		86	70-130		
1,1,2,2-Tetrachloroethane	58.4	10	ug/L	50.0		117	60-140		
1,1,2-Trichloroethane	50.6	10	ug/L	50.0		101	70-130		
1,1-Dichloroethane	43.4	10	ug/L	50.0		87	70-130		
1,1-Dichloroethylene	43.2	10	ug/L	50.0		86	50-150		
1,2-Dibromoethane	<10	10	ug/L	50.0			71.6-124		
o-Dichlorobenzene	53.1	10	ug/L	50.0		106	65-135		
1,2-Dichloroethane	43.9	10	ug/L	50.0		88	70-130		
1,2-Dichloropropane	50.1	10	ug/L	50.0		100	35-165		
m-Dichlorobenzene	53.1	10	ug/L	50.0		106	70-130		
p-Dichlorobenzene	51.7	10	ug/L	50.0		103	65-135		
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0			1-225		
Acrolein	44.8	50	ug/L	50.0		90	60-140		
Acrylonitrile	41.1	50	ug/L	50.0		82	60-140		
Benzene	43.2	10	ug/L	50.0		86	65-135		
Dichlorobromomethane [Bromodichloromethane]	50.5	10	ug/L	50.0		101	65-135		
Bromoform	52.4	10	ug/L	50.0		105	70-130		
Methyl Bromide	39.9	50	ug/L	50.0		80	15-185		
Carbon Tetrachloride	43.1	2	ug/L	50.0		86	70-130		
Chlorobenzene	51.4	10	ug/L	50.0		103	65-135		
Chloroethane	45.2	50	ug/L	50.0		90	40-160		
Chloroform	42.3	10	ug/L	50.0		85	70-135		
Methyl Chloride	48.8	50	ug/L	50.0		98	1-205		
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0		104	70-135		
Ethylbenzene	52.0	10	ug/L	50.0		104	60-140		
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L	50.0			56.5-136		
Dichloromethane [Methylene Chloride]	42.2	20	ug/L	50.0		84	60-140		
Tetrachloroethylene [Tetrachloroethene]	39.2	10	ug/L	50.0		78	70-130		
Toluene	46.8	10	ug/L	50.0		94	70-130		

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Report No. 2407428

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
LCS (B430271-BS1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:51					
trans-1,2-Dichloroethylene	42.9	10	ug/L	50.0		86	70-130		
Trichloroethylene [Trichloroethene]	48.3	10	ug/L	50.0		97	65-135		
Vinyl chloride [Chloroethene]	45.9	10	ug/L	50.0		92	5-195		
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/L*	*50.0*		*103*	*80-106*		
Surrogate: Dibromofluoromethane	*47.1*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*47.8*		*ug/L*	*50.0*		*96*	*91-109*		
LCS Dup (B430271-BSD1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:20					
1,1,1-Trichloroethane	43.4	10	ug/L	50.0		87	70-130	1	36
1,1,2,2-Tetrachloroethane	59.7	10	ug/L	50.0		119	60-140	2	61
1,1,2-Trichloroethane	51.5	10	ug/L	50.0		103	70-130	2	45
1,1-Dichloroethane	43.5	10	ug/L	50.0		87	70-130	0.09	40
1,1-Dichloroethylene	43.9	10	ug/L	50.0		88	50-150	2	32
1,2-Dibromoethane	<10	10	ug/L	50.0			71.6-124		20.3
o-Dichlorobenzene	51.8	10	ug/L	50.0		104	65-135	2	57
1,2-Dichloroethane	44.2	10	ug/L	50.0		88	70-130	0.7	49
1,2-Dichloropropane	50.7	10	ug/L	50.0		101	35-165	1	55
m-Dichlorobenzene	51.6	10	ug/L	50.0		103	70-130	3	43
p-Dichlorobenzene	50.6	10	ug/L	50.0		101	65-135	2	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0			1-225		71
Acrolein	48.0	50	ug/L	50.0		96	60-140	7	60
Acrylonitrile	41.7	50	ug/L	50.0		83	60-140	2	60
Benzene	43.4	10	ug/L	50.0		87	65-135	0.4	61
Dichlorobromomethane [Bromodichloromethane]	50.8	10	ug/L	50.0		102	65-135	0.5	56
Bromoform	53.1	10	ug/L	50.0		106	70-130	1	42
Methyl Bromide	41.3	50	ug/L	50.0		83	15-185	3	61
Carbon Tetrachloride	43.8	2	ug/L	50.0		88	70-130	2	41
Chlorobenzene	51.8	10	ug/L	50.0		104	65-135	0.8	53
Chloroethane	45.3	50	ug/L	50.0		91	40-160	0.3	78
Chloroform	42.6	10	ug/L	50.0		85	70-135	0.6	54
Methyl Chloride	48.0	50	ug/L	50.0		96	1-205	2	60
Dibromochloromethane [Chlorodibromomethane]	52.3	10	ug/L	50.0		105	70-135	1	50
Ethylbenzene	52.7	10	ug/L	50.0		105	60-140	1	63
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L	50.0			56.5-136		30.7

CPS Energy - Environmental Dept.
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Report No. 2407428

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
LCS Dup (B430271-BSD1)				Prepared: 07/25/24 08:19 Analyzed: 07/26/24 07:20					
Dichloromethane [Methylene Chloride]	42.8	20	ug/L	50.0		86	60-140	1	28
Tetrachloroethylene [Tetrachloroethene]	39.6	10	ug/L	50.0		79	70-130	1	39
Toluene	47.2	10	ug/L	50.0		94	70-130	0.9	41
trans-1,2-Dichloroethylene	42.9	10	ug/L	50.0		86	70-130	0.07	45
Trichloroethylene [Trichloroethene]	49.1	10	ug/L	50.0		98	65-135	2	48
Vinyl chloride [Chloroethene]	46.2	10	ug/L	50.0		92	5-195	0.7	66
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.0*		*ug/L*	*50.0*		*92*	*83-118*		
Surrogate: Toluene-d8	*47.5*		*ug/L*	*50.0*		*95*	*91-109*		
Matrix Spike (B430271-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19 Analyzed: 07/26/24 05:50					
1,1,1-Trichloroethane	42.0	10	ug/L	50.0	<10	84	52-162		
1,1,2,2-Tetrachloroethane	59.7	10	ug/L	50.0	<10	119	46-157		
1,1,2-Trichloroethane	50.2	10	ug/L	50.0	<10	100	52-150		
1,1-Dichloroethane	42.6	10	ug/L	50.0	<10	85	59-155		
1,1-Dichloroethylene	42.2	10	ug/L	50.0	<10	84	1-234		
1,2-Dibromoethane	51.7	10	ug/L	50.0	<10	103	64.7-132		
o-Dichlorobenzene	51.7	10	ug/L	50.0	<10	103	18-190		
1,2-Dichloroethane	43.3	10	ug/L	50.0	<10	87	49-155		
1,2-Dichloropropane	49.6	10	ug/L	50.0	<10	99	1-210		
m-Dichlorobenzene	50.2	10	ug/L	50.0	<10	100	59-156		
p-Dichlorobenzene	49.5	10	ug/L	50.0	<10	99	18-190		
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		
Acrolein	41.2	50	ug/L	50.0	<50	82	40-160		
Acrylonitrile	41.4	50	ug/L	50.0	<50	83	40-160		
Benzene	42.0	10	ug/L	50.0	<10	84	37-151		
Dichlorobromomethane [Bromodichloromethane]	49.8	10	ug/L	50.0	<10	100	35-155		
Bromoform	52.3	10	ug/L	50.0	<10	105	45-169		
Methyl Bromide	34.5	50	ug/L	50.0	<50	69	1-242		
Carbon Tetrachloride	42.5	2	ug/L	50.0	<2	85	70-140		
Chlorobenzene	50.7	10	ug/L	50.0	<10	101	37-160		
Chloroethane	44.2	50	ug/L	50.0	<50	88	14-230		
Chloroform	41.6	10	ug/L	50.0	<10	83	51-138		
Methyl Chloride	46.0	50	ug/L	50.0	<50	92	1-273		

CPS Energy - Environmental Dept.
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Report No. 2407428

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Matrix Spike (B430271-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19		Analyzed: 07/26/24 05:50			
Dibromochloromethane [Chlorodibromomethane]	51.1	10	ug/L	50.0	<10	102	53-149		
Ethylbenzene	51.5	10	ug/L	50.0	<10	103	37-162		
Methyl Ethyl Ketone (2-Butanone)	42.1	50	ug/L	50.0	<50	84	41.9-177		
Dichloromethane [Methylene Chloride]	38.4	20	ug/L	50.0	<20	77	1-221		
Tetrachloroethylene [Tetrachloroethene]	37.0	10	ug/L	50.0	<10	74	64-148		
Toluene	45.6	10	ug/L	50.0	<10	91	47-150		
trans-1,2-Dichloroethylene	40.9	10	ug/L	50.0	<10	82	54-156		
Trichloroethylene [Trichloroethene]	47.2	10	ug/L	50.0	<10	94	70-157		
Vinyl chloride [Chloroethene]	46.4	10	ug/L	50.0	<10	93	1-251		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93*	*83-118*		
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95*	*91-109*		
Matrix Spike Dup (B430271-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19		Analyzed: 07/26/24 06:21			
1,1,1-Trichloroethane	42.2	10	ug/L	50.0	<10	84	52-162	0.3	36
1,1,2,2-Tetrachloroethane	58.6	10	ug/L	50.0	<10	117	46-157	2	61
1,1,2-Trichloroethane	49.9	10	ug/L	50.0	<10	100	52-150	0.5	45
1,1-Dichloroethane	42.9	10	ug/L	50.0	<10	86	59-155	0.7	40
1,1-Dichloroethylene	42.4	10	ug/L	50.0	<10	85	1-234	0.6	32
1,2-Dibromoethane	51.2	10	ug/L	50.0	<10	102	64.7-132	0.9	26.5
o-Dichlorobenzene	50.6	10	ug/L	50.0	<10	101	18-190	2	57
1,2-Dichloroethane	43.2	10	ug/L	50.0	<10	86	49-155	0.1	49
1,2-Dichloropropane	49.4	10	ug/L	50.0	<10	99	1-210	0.3	55
m-Dichlorobenzene	49.9	10	ug/L	50.0	<10	100	59-156	0.6	43
p-Dichlorobenzene	48.6	10	ug/L	50.0	<10	97	18-190	2	57
2-Chloroethyl Vinyl Ether	<10	10	ug/L	50.0	<10		1-305		71
Acrolein	42.9	50	ug/L	50.0	<50	86	40-160	4	60
Acrylonitrile	40.7	50	ug/L	50.0	<50	81	40-160	2	60
Benzene	42.2	10	ug/L	50.0	<10	84	37-151	0.4	61
Dichlorobromomethane [Bromodichloromethane]	49.8	10	ug/L	50.0	<10	100	35-155	0.06	56
Bromoform	52.0	10	ug/L	50.0	<10	104	45-169	0.5	42
Methyl Bromide	37.5	50	ug/L	50.0	<50	75	1-242	9	61
Carbon Tetrachloride	42.5	2	ug/L	50.0	<2	85	70-140	0.02	41
Chlorobenzene	50.3	10	ug/L	50.0	<10	101	37-160	0.7	53

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Report No. 2407428

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430271 - EPA 624.1									
Matrix Spike Dup (B430271-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 08:19 Analyzed: 07/26/24 06:21					
Chloroethane	44.0	50	ug/L	50.0	<50	88	14-230	0.4	78
Chloroform	41.7	10	ug/L	50.0	<10	83	51-138	0.3	54
Methyl Chloride	46.8	50	ug/L	50.0	<50	94	1-273	2	60
Dibromochloromethane [Chlorodibromomethane]	51.2	10	ug/L	50.0	<10	102	53-149	0.2	50
Ethylbenzene	51.0	10	ug/L	50.0	<10	102	37-162	0.9	63
Methyl Ethyl Ketone (2-Butanone)	41.7	50	ug/L	50.0	<50	83	41.9-177	1	21.3
Dichloromethane [Methylene Chloride]	38.6	20	ug/L	50.0	<20	77	1-221	0.4	28
Tetrachloroethylene [Tetrachloroethene]	37.2	10	ug/L	50.0	<10	74	64-148	0.4	39
Toluene	45.8	10	ug/L	50.0	<10	92	47-150	0.4	41
trans-1,2-Dichloroethylene	40.8	10	ug/L	50.0	<10	82	54-156	0.4	45
Trichloroethylene [Trichloroethene]	47.1	10	ug/L	50.0	<10	94	70-157	0.2	48
Vinyl chloride [Chloroethene]	46.8	10	ug/L	50.0	<10	94	1-251	0.9	66
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96*	*91-109*		

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430281 - EPA 5030B									
Blank (B430281-BLK1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 01:29					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*47.8*		*ug/L*	*50.0*		*96*	*65.7-120*		
Surrogate: Dibromofluoromethane	*41.5*		*ug/L*	*50.0*		*83*	*81.2-126*		
Surrogate: Toluene-d8	*48.5*		*ug/L*	*50.0*		*97*	*87.4-109*		

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Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430281 - EPA 5030B									
LCS (B430281-BS1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 00:33					
Dichlorobromomethane [Bromodichloromethane]	48.4	2.50	ug/L	50.0		97	80-120		
Bromoform	49.3	2.50	ug/L	50.0		99	80-120		
Chloroform	40.0	2.50	ug/L	50.0		80	80-120		
Dibromochloromethane [Chlorodibromomethane]	49.6	2.50	ug/L	50.0		99	80-120		
Surrogate: 4-Bromofluorobenzene	*49.9*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*43.2*		*ug/L*	*50.0*		*86*	*81.2-126*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*87.4-109*		
LCS Dup (B430281-BSD1)				Prepared: 07/25/24 10:15 Analyzed: 07/26/24 00:33					
Dichlorobromomethane [Bromodichloromethane]	48.4	2.50	ug/L	50.0		97	80-120	0	20
Bromoform	49.3	2.50	ug/L	50.0		99	80-120	0	20
Chloroform	40.0	2.50	ug/L	50.0		80	80-120	0	20
Dibromochloromethane [Chlorodibromomethane]	49.6	2.50	ug/L	50.0		99	80-120	0	20
Surrogate: 4-Bromofluorobenzene	*50.9*		*ug/L*	*50.0*		*102*	*65.7-120*		
Surrogate: Dibromofluoromethane	*42.8*		*ug/L*	*50.0*		*86*	*81.2-126*		
Surrogate: Toluene-d8	*48.4*		*ug/L*	*50.0*		*97*	*87.4-109*		
Matrix Spike (B430281-MS1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15 Analyzed: 07/26/24 05:50					
Dichlorobromomethane [Bromodichloromethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120		
Bromoform	52.3	2.50	ug/L	50.0	<2.50	105	80-120		
Chloroform	41.6	2.50	ug/L	50.0	<2.50	83	80-120		
Dibromochloromethane [Chlorodibromomethane]	51.1	2.50	ug/L	50.0	<2.50	102	80-120		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.6*		*ug/L*	*50.0*		*93*	*81.2-126*		
Surrogate: Toluene-d8	*47.7*		*ug/L*	*50.0*		*95*	*87.4-109*		
Matrix Spike Dup (B430281-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15 Analyzed: 07/26/24 06:21					
Dichlorobromomethane [Bromodichloromethane]	49.8	2.50	ug/L	50.0	<2.50	100	80-120	0.06	20
Bromoform	52.0	2.50	ug/L	50.0	<2.50	104	80-120	0.5	20
Chloroform	41.7	2.50	ug/L	50.0	<2.50	83	80-120	0.3	20
Dibromochloromethane [Chlorodibromomethane]	51.2	2.50	ug/L	50.0	<2.50	102	80-120	0.2	20

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:
This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B430281 - EPA 5030B									
Matrix Spike Dup (B430281-MSD1)		**Source: 2407428-01**		Prepared: 07/25/24 10:15 Analyzed: 07/26/24 06:21					
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*48.0*		*ug/L*	*50.0*		*96*	*87.4-109*		

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
Received:
07/24/24 13:54

Additional Notes:

This supersedes the last report (2407428 1-SATL1 FINAL 08 07 24 1903) issued. Reason: Corrected units, prep requested by client, 12/20/24.

Report No. 2407428

SAMPLE QUALIFIERS

Z	Fluoride Value 1.22 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
Q1	MS sample analyzed in this batch is NOT from this specific sampling site.
Q	Additional Sample volumes were NOT provided to the laboratory for the analysis of an MS sample as required by EPA Method 1664.
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet (Week 2)

Reported:
12/20/24 10:07
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Additional Notes:

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Report No. 2407428

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407428-01	CN_Sub
Eurofins - Pittsburgh	2407428-01	Color_SUB

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2407428
ADDRESS: 12940 US HWY 181S	ADDRESS:	
CITY: SA STATE: Tx ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #: 210-213-7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☑ 7-10 Days REG | ☐ 5 Days +25% | ☐ 4 Days +50% | ☐ 3 DAYS +75% | ☐ 2 DAYS +100% | ☐ Next Day +150% | ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB Inlet PP (Week 2)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____°C; LCS/D:_____|_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY: I Dotray / K Cruz

OBSERVED TEMP. 1.4C / CORRECTED TEMP. 1.4C / TEMP. I.R. GUN # 7 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST/PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 6 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 6151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P. (See Attachment)	PRESERVED WITH: FCH, 3ON2N, HOas, 4ON2O2, 3mH2O, mZOZ	REMARKS
1	7-24-24	~~0930~~ 0915		X								X			VHB Inlet	2# HT	1119.5 mL								X			XXXXXXX*	Only 1 FOG (1L Amber HCl filled) *Please run FOG from a different sample per MGH

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
[signature]	7-24-24 1354	[signature]	7-24-24 1354				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Jaime Cruz		Hannah Tyra	1354				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: Inlet (Week 2)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407428

Work Order Due by:	08/02/24 17:00 (7 day TAT)		
Received By:	Hannah Thigpen	Date Received:	07/24/24 13:54
Logged In By:	Aimee Landon	Date Logged In:	07/24/24 15:46

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.4°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/17/24 11:27*

SATL#FO001
Revised 09/15/2022

ority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet
(Process Water Outfalls)	1	CAL/VHB	External	Yes
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes
	3	CAL/VHB	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB	External	Yes
	8	CAL/VHB	External	Yes
	9	CAL/VHB	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Notes
Cyanide method OIA 1677
No E. coli sampling at VHB

NOTES
Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet
4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

[redacted] Parameters Ordered from ATL [redacted] All except [redacted] use detection limits on permit applicables [redacted]

[redacted]

Test America Cn

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____
(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): _____

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** _____

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
~~Arsenic, total~~					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
~~Mercury, total~~					0.005/0.0005
Nickel, total					2
~~Selenium, total~~					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☒ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☒ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☒ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

Table 4 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☒ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO_3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] **: Volatile Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: **: Acid Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [redacted] **: Base/Neutral Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

Generated 7/31/2024 5:13:36 AM

JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177475-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



Generated
7/31/2024 5:13:36 AM

Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job ID: 180-177475-1 — Eurofins Pittsburgh

Job Narrative
180-177475-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 7/25/2024 9:55 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C.

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

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177475-1	2407-428-01 (VHB INLET)	Water	07/24/24 09:15	07/25/24 09:55

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Client Sample ID: 2407-428-01 (VHB INLET)
Lab Sample ID: 180-177475-1
Date Collected: 07/24/24 09:15
Matrix: Water
Date Received: 07/25/24 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	475111	07/26/24 09:49	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			475384	07/30/24 11:29	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Client Sample ID: 2407-428-01 (VHB INLET)
Lab Sample ID: 180-177475-1
Date Collected: 07/24/24 09:15
Matrix: Water
Date Received: 07/25/24 09:55

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			07/26/24 09:49	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			07/26/24 09:49	1
pH at time of analysis (SM 2120B-2011)	**9.5**		0.10	0.10	SU			07/26/24 09:49	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			07/30/24 11:29	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-475111/1
Matrix: Water
Analysis Batch: 475111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			07/26/24 09:45	1
Color, True	ND		5.0	5.0	Color Units			07/26/24 09:45	1
pH at time of analysis	NA		0.10	0.10	SU			07/26/24 09:45	1

Lab Sample ID: 180-177475-1 DU
Matrix: Water
Analysis Batch: 475111

Client Sample ID: 2407-428-01 (VHB INLET)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color, Apparent	35		35.0		Color Units		0	20
Color, True	10		10.0		Color Units		0	20
pH at time of analysis	9.5		9.49		SU		0	

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-475384/44
Matrix: Water
Analysis Batch: 475384

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			07/30/24 11:21	1

Lab Sample ID: LCS 180-475384/45
Matrix: Water
Analysis Batch: 475384

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	54.4		ug/L		109	82 - 132

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177475-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 475111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177475-1	2407-428-01 (VHB INLET)	Total/NA	Water	2120B-2011	
MB 180-475111/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-475111/2	Lab Control Sample	Total/NA	Water	2120B-2011	
180-177475-1 DU	2407-428-01 (VHB INLET)	Total/NA	Water	2120B-2011	

Analysis Batch: 475384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177475-1	2407-428-01 (VHB INLET)	Total/NA	Water	OIA - 1677	
MB 180-475384/44	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-475384/45	Lab Control Sample	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SATL	COMPANY SATL	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN Hamee Landon PHONE # 210-229-9930	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ

DATA TO TCEQ ❑ RRC ❑ Other (Specify) ❑ Field pH._____, Temp._____ °C, LCS/D._____/_____, Dup _____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO
PROPER CONTAINERS INTACT ❑ YES ❑ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ❑ YES ❑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ / SAMPLE ICED ❑ YES ❑ NO

TRRP 13 ❑ APPENDIX A ❑ PST PCLS ❑ SIM/LOW LEVEL ❑ TSDF Class 2 ❑ PERMIT ❑

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / N03 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	624 & VOA Table 01416373 Color Comments: 2023 2024	PRESERVED WITH: HCl, HNO3, H2SO4, NaOH, NaHSO4, 5035, PRESERVED IN THE LAB, COMPOSITED IN THE LAB, FILTERED IN THE LAB, FILTERED IN THE FIELD, VOA AIR BUBBLES	REMARKS
1	7/24/24	0915	X									X			240746-28-01 (VHB Tube)	2	250ml										6Y		XC	

180-177475 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Hamee Landon	7/24/24 1900	RECEIVED BY (PRINT NAME) Keeny Rubio	7/25/24 0955	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ❑ (Initial) 5035 ❑ N/A ❑		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

MARCELA HAWK
210-229-9920
MARCELA HAWK
1610 S. LAREDO STREET
SAN ANTONIO TX 78207

9 LBS

1 OF

SHIP TO:
SAMPLE RECEIVING
EUROFINS PITTSBURGH
301 ALPHA DRIVE RIDC PARK
PITTSBURGH PA 15238

PA 152 9-22

UPS NEXT DAY AIR

1

TRACKING #: 1Z 785 26E 01 9304 1264

Uncorrected temp 0.4 °C
Thermometer ID 24
CF -0.4 Initials

PT-WI-SR-001 effective 11/8/18

BILLING: P/P

XOL 24.07.06 NV45 30.0A 07/2024*

180-177475 Waybill

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177475-1

Login Number: 177475

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 19, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407576
RE: VHB Priority Pollutants
Project Number: 001 (3)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/31/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:

This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB 001	2407576-01	Liquid	Grab	07/31/24 09:30	07/31/24 12:43

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407576-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 09:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	17.3	mg/L	0.10	SM 5310C	B432360	08/09/24 19:03	SM5310C	DD	
Total Alkalinity *	388	mg/L as CaCO3	20.0	SM2320B	B433198	08/12/24 10:20	SM2320B	JA	
Ammonia-Nitrogen *	1.12	mg/L	1.00	SM4500NH3B	B431381	08/01/24 17:11	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	2.80	mg/L	1.00	EPA 351.3	B432189	08/05/24 14:00	EPA 351.3	JA	
Total Organic Nitrogen	1.68	mg/L	1.00	[CALC]	[CALC]	08/05/24 14:00	CALC	JA	
Sulfide *	<100	ug/L	100	EPA 376.2	B433186	08/05/24 09:40	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B433222	08/01/24 16:30	SM5540C	SG	
Total Dissolved Solids *	1370	mg/L	8.33	SM2540C	B432247	08/06/24 12:01	SM2540C	DD	
Total Suspended Solids *	13.0	mg/L	8.33	SM2540D	B431318	08/01/24 12:55	SM2540D	DD	
COD *	62.7	mg/L	5.00	H8000	B432277	08/07/24 18:25	H8000	DD	
pH *	9.25	pH Units	0.01	SM4500HB	B432168	08/01/24 08:50	SM4500HB	JA	H
pH measured @Temperature >>	68.2	°F	0.100	SM4500HB	B432168	08/01/24 08:50	SM2550B	JA	H
BOD-5 *	<2.00	mg/L	2.00	SM5210B	B432236	08/06/24 16:57	SM5210B	DD	
CBOD *	3.86	mg/L	2.00	SM5210B	B432240	08/06/24 13:00	SM5210B	DD	
Dissolved Oxygen *	10.4	mg/L	2.00	EPA 360.1	B431378	08/01/24 09:01	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B432359	08/09/24 16:07	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B432188	08/05/24 17:00	EPA 377.1	JA	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B433183	08/02/24 09:05	I-1230-85	JA	
Residual Chlorine *	0.02	mg/L	0.01	SM4500ClG	B432297	08/01/24 09:10	SM4500ClG	JA	
Total Phosphorous *	0.52	mg/L	0.05	EPA 365.3	B432180	08/02/24 12:50	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1240	ug/L	500	EPA 300.0	B432319	08/01/24 03:28	EPA 300.0	JA	Z
Chloride *	652	mg/L	5.00	EPA 300.0	B432319	08/01/24 03:28	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B432319	08/01/24 02:53	EPA 300.0	JA	
Bromide *	9700	ug/L	400	EPA 300.0	B432319	08/01/24 03:28	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B432319	08/01/24 03:28	EPA 300.0	JA	
Sulfate *	153	mg/L	5.00	EPA 300.0	B432319	08/01/24 03:28	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	08/01/24 03:28	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407576-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 09:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									**P2**
Aluminum *	14	ug/L	2	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Barium *	51	ug/L	3	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Boron *	1070	ug/L	20	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Cobalt *	0.4	ug/L	0.3	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Copper *	2	ug/L	2	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Iron *	151	ug/L	7	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Magnesium *	52000	ug/L	20	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Manganese *	8	ug/L	0.5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Nickel *	5	ug/L	2	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Zinc *	12	ug/L	5	EPA 200.8	B432329	08/14/24 12:39	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	08/14/24 12:39	CALC	JA	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	CH
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	

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12/19/24 17:37
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Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407576-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 09:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:01	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*55 %*	*18.3-110*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*46 %*	*15.6-80.4*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*30 %*	*2.8-70.6*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*49 %*	*8.98-84*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*21 %*	*1.11-63.5*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*73 %*	*8.46-114*		*EPA 3510C*	*B432226*	*08/08/24 14:01*	*EPA 625.1*	*ME*	

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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407576-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 09:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B432225	08/08/24 14:01	ASTM D7065	MF	
Surrogate: 2,4,6-Tribromophenol	*53 %*		*5-89.9*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Surrogate: 2-Fluorobiphenyl	*45 %*		*27-111*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Surrogate: Phenol-d5	*19 %*		*5-64.3*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Surrogate: 2-Fluorophenol	*25 %*		*5-64.3*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Surrogate: Terphenyl-d14	*68 %*		*5-114*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Surrogate: Nitrobenzene-d5	*41 %*		*22-117*	*ASTM D7065-11*	*B432225*	*08/08/24 14:01*	*ASTM D7065*	*MF*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B431310	08/02/24 20:24	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*76 %*		*15.3-112*	*EPA 608.3*	*B431310*	*08/02/24 20:24*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*64 %*		*10.2-92.4*	*EPA 608.3*	*B431310*	*08/02/24 20:24*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
1,3-Dichloropropylene [1,3-Dichloropr	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Acrolein *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Benzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Bromoform *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	

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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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12/19/24 17:37
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Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2407576-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 09:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Chloroethane *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Chloroform *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Toluene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*102 %*		*80-106*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*104 %*		*83-118*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*100 %*		*91-109*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Bromoform *	8.52	ug/L	2.50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Chloroform *	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0	EPA 624.1	B433202	08/09/24 21:55	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	08/09/24 21:55	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*102 %*		*65.7-120*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*104 %*		*81.2-126*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*100 %*		*87.4-109*	*EPA 624.1*	*B433202*	*08/09/24 21:55*	*EPA 624.1*	*ME*	

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Additional Notes:
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Report No. 2407576

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431318 - SM2540D										
Blank (B431318-BLK1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:45				
Total Suspended Solids	<2.50	2.50	mg/L							
LCS (B431318-BS1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:46				
Total Suspended Solids	10.6	2.50	mg/L	10.0		106	80-120			
LCS Dup (B431318-BSD1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:47				
Total Suspended Solids	10.0	2.50	mg/L	10.0		100	80-120	6	20	
Duplicate (B431318-DUP1)		**Source: 2407595-01**		Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:58				
Total Suspended Solids	18.8	6.25	mg/L		17.0			10	20	
Batch B431378 - EPA 360.1										
Duplicate (B431378-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:02				
Dissolved Oxygen	11.1	2.00	mg/L		11.1			0	20	H, UA
Batch B431381 - SM4500NH3B										
Blank (B431381-BLK1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:00				
Ammonia-Nitrogen	<1.00	1.00	mg/L							
LCS (B431381-BS1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:01				
Ammonia-Nitrogen	16.8	1.00	mg/L	20.0		84	80-120			
LCS Dup (B431381-BSD1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:02				
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	18	20	
Duplicate (B431381-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:03				
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20	
Matrix Spike (B431381-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:04				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120			
Matrix Spike Dup (B431381-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:08				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120	0	200	
Batch B432168 - SM4500HB										
LCS (B432168-BS1)				Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:30				
pH	7.10	0.01	pH Units	7.00		101	97.5-102.5			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432168 - SM4500HB										
LCS (B432168-BS1)				Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:30				
pH measured @Temperature >>	20.6	0.100	°F				0-200			
Duplicate (B432168-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:54				
pH	9.25	0.01	pH Units		9.23			0.2	20	H
pH measured @Temperature >>	20.1	0.100	°F		68.2			109	30	H S
Batch B432180 - EPA 365.3										
Blank (B432180-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B432180-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.483	0.05	mg/L	0.500		97	80-120			
LCS Dup (B432180-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.459	0.05	mg/L	0.500		92	80-120	5	20	
Duplicate (B432180-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.503	0.05	mg/L		0.543			8	20	
Matrix Spike (B432180-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.543	39	80-120			M
Matrix Spike Dup (B432180-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.767	0.05	mg/L	0.500	0.543	45	80-120	4	20	M
Batch B432188 - SM4500-SO3(B)										
Blank (B432188-BLK1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:30				
Sulfite	<1000	1000	ug/L							
LCS (B432188-BS1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:32				
Sulfite	9000	1000	ug/L	10000		90	80-120			
LCS Dup (B432188-BSD1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:34				
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20	
Duplicate (B432188-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:40				
Sulfite	<1000	1000	ug/L		<1000				20	
Batch B432189 - EPA 351.3										

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B432189-BLK1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B432189-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120		
LCS Dup (B432189-BSD1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	0	20
Duplicate (B432189-DUP1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	2.80	1.00	mg/L		3.36			18	20
Matrix Spike (B432189-MS1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	3.36	90	80-120		
Matrix Spike Dup (B432189-MSD1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	3.36	104	80-120	12	20
Batch B432236 - SM5210B									
Blank (B432236-BLK1)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	<2.00	2.00	mg/L						
LCS (B432236-BS1)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	200	2.00	mg/L	200		100	80-120		
LCS (B432236-BS2)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	210	2.00	mg/L	200		105	80-120		
LCS (B432236-BS3)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	205	2.00	mg/L	200		102	80-120		
Duplicate (B432236-DUP1)		**Source: 2408010-10**		Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	4360	2.00	mg/L		4030			8	20
Batch B432240 - SM5210B									
Blank (B432240-BLK1)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:00			
CBOD	<2.00	2.00	mg/L						
LCS (B432240-BS1)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:01			
CBOD	200	2.00	mg/L	200		100	80-120		
LCS (B432240-BS2)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:02			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432240 - SM5210B									
CBOD	210	2.00	mg/L	200		105	80-120		
LCS (B432240-BS3)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:03			
CBOD	205	2.00	mg/L	200		102	80-120		
Duplicate (B432240-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:04			
CBOD	4.66	2.00	mg/L		3.88			18	20
Batch B432247 - SM2540C									
Blank (B432247-BLK1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:30			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B432247-BS1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:31			
Total Dissolved Solids	115	2.50	mg/L	100		115	80-120		
LCS Dup (B432247-BSD1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:32			
Total Dissolved Solids	110	2.50	mg/L	100		110	80-120	4	20
Duplicate (B432247-DUP1)		**Source: 2407550-07**		Prepared: 08/02/24 08:30		Analyzed: 08/06/24 09:48			
Total Dissolved Solids	19500	2.50	mg/L		20000			2	20
Batch B432277 - H8000									
Blank (B432277-BLK1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:20			
COD	<5.00	5.00	mg/L						
LCS (B432277-BS1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:21			
COD	46.8	5.00	mg/L	50.0		94	80-120		
LCS Dup (B432277-BSD1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:22			
COD	44.7	5.00	mg/L	50.0		89	80-120	5	20
Duplicate (B432277-DUP1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:23			
COD	60.9	5.00	mg/L		62.7			3	20
Matrix Spike (B432277-MS1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:24			
COD	104	5.00	mg/L	50.0	62.7	82	80-120		
Matrix Spike Dup (B432277-MSD1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:26			
COD	105	5.00	mg/L	50.0	62.7	84	80-120	1	20

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432297 - SM4500ClG										
Blank (B432297-BLK1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432297-BS1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.235	0.01	mg/L	0.250		94	80-120			
LCS Dup (B432297-BSD1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.240	0.01	mg/L	0.250		96	80-120	2	20	
Duplicate (B432297-DUP1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.0210	0.01	mg/L		0.0200			5	20	
Matrix Spike (B432297-MS1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:15				
Residual Chlorine	0.194	0.01	mg/L	0.250	0.0200	70	80-120			M
Matrix Spike Dup (B432297-MSD1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.180	0.01	mg/L	0.250	0.0200	64	80-120	7	20	M
Batch B432359 - EPA 1664A										
Blank (B432359-BLK1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:00				
Oil & Grease (HEM)	<4.75	4.75	mg/L							
LCS (B432359-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:01				
Oil & Grease (HEM)	32.8	4.75	mg/L	40.0		82	78-114			
LCS Dup (B432359-BSD1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:02				
Oil & Grease (HEM)	32.5	4.75	mg/L	40.0		81	78-114	0.9	18	
Matrix Spike (B432359-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:03				
Oil & Grease (HEM)	37.0	4.75	mg/L	40.0	<4.75	92	78-114			
Matrix Spike (B432359-MS2)		**Source: 2407577-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:04				
Oil & Grease (HEM)	32.8	4.75	mg/L	40.0	<4.75	82	78-114			
Batch B432360 - SM 5310C										
Blank (B432360-BLK1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 13:39				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B432360-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:06				

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Batch B432360 - SM 5310C									
LCS (B432360-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:06			
Total Organic Carbon	4.09	0.10	mg/L	5.00		82	80-120		
LCS Dup (B432360-BSD1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:32			
Total Organic Carbon	4.33	0.10	mg/L	5.00		87	80-120	6	20
Duplicate (B432360-DUP1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:19			
Total Organic Carbon	<0.10	0.10	mg/L		<0.10				20
Matrix Spike (B432360-MS1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:46			
Total Organic Carbon	4.52	0.10	mg/L	5.00	<0.10	90	70-130		
Matrix Spike Dup (B432360-MSD1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 17:08			
Total Organic Carbon	4.08	0.10	mg/L	5.00	<0.10	82	70-130	10	20
Batch B433183 - I-1230-85									
Blank (B433183-BLK1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	<3	3	ug/L						
LCS (B433183-BS1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	401	3	ug/L	400		100	90-110		
LCS Dup (B433183-BSD1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	412	3	ug/L	400		103	90-110	3	20
Duplicate (B433183-DUP1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	<3	3	ug/L		<3				20
Matrix Spike (B433183-MS1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	379	3	ug/L	400	<3	95	80-120		
Matrix Spike Dup (B433183-MSD1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	387	3	ug/L	400	<3	97	80-120	2	20
Batch B433186 - EPA 376.2									
Blank (B433186-BLK1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	<100	100	ug/L						
LCS (B433186-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			

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Batch B433186 - EPA 376.2									
LCS (B433186-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	94.0	100	ug/L	100		94	80-120		
LCS Dup (B433186-BSD1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	92.0	100	ug/L	100		92	80-120	2	20
Duplicate (B433186-DUP1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B433186-MS1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	95.0	100	ug/L	100	<100	95	70-130		
Matrix Spike Dup (B433186-MSD1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	96.0	100	ug/L	100	<100	96	70-130	1	30
Batch B433198 - SM2320B									
Blank (B433198-BLK1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:00			
Total Alkalinity	<20.0	20.0	mg/L as CaCO3						
LCS (B433198-BS1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:10			
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120		
LCS Dup (B433198-BSD1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:15			
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120	4	20
Duplicate (B433198-DUP1)		**Source: 2407576-01**		Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:45			
Total Alkalinity	396	20.0	mg/L as CaCO3		388			2	20
Batch B433222 - SM5540 C									
Blank (B433222-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B433222-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	257	200	ug/L	250		103	80-120		
LCS Dup (B433222-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	268	200	ug/L	250		107	80-120	4	20

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433222 - SM5540 C									
Duplicate (B433222-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 16:00	Analyzed: 08/01/24 16:30				
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432319 - EPA 300.0									
Blank (B432319-BLK1)				Prepared: 07/31/24 09:00	Analyzed: 07/31/24 09:43				
Fluoride	<500	500	ug/L						
Chloride	<0.100	0.100	mg/L						
Nitrite as N	<100	100	ug/L						
Bromide	<400	400	ug/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B432319-BS1)				Prepared: 07/31/24 09:00	Analyzed: 07/31/24 10:01				
Fluoride	988	500	ug/L	1000		99	90-110		
Chloride	5.15	0.100	mg/L	5.00		103	90-110		
Nitrite as N	4810	100	ug/L	5000		96	90-110		
Bromide	4700	400	ug/L	5000		94	90-110		
Nitrate as N	5.26	0.100	mg/L	5.00		105	90-110		
Sulfate	5.15	0.10	mg/L	5.00		103	90-110		
LCS Dup (B432319-BSD1)				Prepared: 07/31/24 09:00	Analyzed: 07/31/24 10:19				
Fluoride	994	500	ug/L	1000		99	90-110	0.6	20
Chloride	5.12	0.100	mg/L	5.00		102	90-110	0.5	20
Nitrite as N	4810	100	ug/L	5000		96	90-110	0.1	20
Bromide	4680	400	ug/L	5000		94	90-110	0.4	20
Nitrate as N	5.25	0.100	mg/L	5.00		105	90-110	0.07	20
Sulfate	5.27	0.10	mg/L	5.00		105	90-110	2	20
Duplicate (B432319-DUP1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00	Analyzed: 07/31/24 17:39				
Fluoride	<500	500	ug/L		<500				20
Chloride	<0.100	0.100	mg/L		5040				20

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432319 - EPA 300.0										
Duplicate (B432319-DUP1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 17:39				
Nitrite as N	3750000	100	ug/L		3730000			0.6	20	
Bromide	<400	400	ug/L		240				20	
Nitrate as N	2.50	0.100	mg/L		2.54			1	20	
Sulfate	6.31	0.10	mg/L		6.45			2	20	
Duplicate (B432319-DUP2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00		Analyzed: 07/31/24 13:35				
Fluoride	168	500	ug/L		176			5	20	
Chloride	6.50	0.100	mg/L		6.53			0.4	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	<400	400	ug/L		<400				20	
Nitrate as N	1.47	0.100	mg/L		1.47			0.4	20	
Sulfate	6.40	0.10	mg/L		6.43			0.5	20	
Matrix Spike (B432319-MS1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 17:57				
Fluoride	920	500	ug/L	1000	<500	92	80-120			
Chloride	1050	0.100	mg/L	5.00	5040	NR	80-120			M
Nitrite as N	3540000	100	ug/L	5000	3730000	NR	80-120			M
Bromide	5410	400	ug/L	5000	240	103	80-120			
Nitrate as N	7.09	0.100	mg/L	5.00	2.54	91	80-120			
Sulfate	12.2	0.10	mg/L	5.00	6.45	115	80-120			
Matrix Spike (B432319-MS2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00		Analyzed: 07/31/24 13:53				
Fluoride	1180	500	ug/L	1000	176	101	80-120			
Chloride	11.7	0.100	mg/L	5.00	6.53	103	80-120			
Nitrite as N	4820	100	ug/L	5000	<100	96	80-120			
Bromide	4730	400	ug/L	5000	<400	95	80-120			
Nitrate as N	6.78	0.100	mg/L	5.00	1.47	106	80-120			
Sulfate	11.9	0.10	mg/L	5.00	6.43	110	80-120			
Matrix Spike Dup (B432319-MSD1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 18:14				
Fluoride	912	500	ug/L	1000	<500	91	80-120	0.8	20	
Chloride	1050	0.100	mg/L	5.00	5040	NR	80-120	0.3	20	M
Nitrite as N	3560000	100	ug/L	5000	3730000	NR	80-120	0.6	20	M
Bromide	5330	400	ug/L	5000	240	102	80-120	2	20	
Nitrate as N	7.06	0.100	mg/L	5.00	2.54	91	80-120	0.3	20	
Sulfate	12.3	0.10	mg/L	5.00	6.45	117	80-120	0.5	20	

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432319 - EPA 300.0									
Matrix Spike Dup (B432319-MSD2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00 Analyzed: 07/31/24 14:11					
Fluoride	1190	500	ug/L	1000	176	101	80-120	0.3	20
Chloride	11.7	0.100	mg/L	5.00	6.53	104	80-120	0.3	20
Nitrite as N	4840	100	ug/L	5000	<100	97	80-120	0.3	20
Bromide	4720	400	ug/L	5000	<400	94	80-120	0.07	20
Nitrate as N	6.78	0.100	mg/L	5.00	1.47	106	80-120	0.03	20
Sulfate	12.0	0.10	mg/L	5.00	6.43	112	80-120	0.5	20

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432329 - EPA 200.8									
Blank (B432329-BLK1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:25					
Aluminum	<2	2	ug/L						
Antimony	<5	5	ug/L						
Barium	<3	3	ug/L						
Beryllium	<0.5	0.5	ug/L						
Boron	<20	20	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Cobalt	<0.3	0.3	ug/L						
Copper	<2	2	ug/L						
Iron	<7	7	ug/L						
Lead	<0.5	0.5	ug/L						
Magnesium	<20	20	ug/L						
Manganese	<0.5	0.5	ug/L						
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432329 - EPA 200.8									
LCS (B432329-BS1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:32					
Aluminum	982	2	ug/L	1000		98	85-115		
Antimony	105	5	ug/L	100		105	85-115		
Barium	99.7	3	ug/L	100		100	85-115		
Beryllium	101	0.5	ug/L	100		101	85-115		
Boron	103	20	ug/L	100		103	85-115		
Cadmium	101	1	ug/L	100		101	85-115		
Chromium	100	3	ug/L	100		100	85-115		
Cobalt	102	0.3	ug/L	100		102	85-115		
Copper	98.6	2	ug/L	100		99	85-115		
Iron	951	7	ug/L	1000		95	85-115		
Lead	97.1	0.5	ug/L	100		97	85-115		
Magnesium	1070	20	ug/L	1000		107	85-115		
Manganese	95.0	0.5	ug/L	100		95	85-115		
Molybdenum	99.9	1	ug/L	100		100	85-115		
Nickel	101	2	ug/L	100		101	85-115		
Silver	89.9	0.5	ug/L	100		90	85-115		
Thallium	96.0	0.5	ug/L	100		96	85-115		
Tin	102	5	ug/L	100		102	85-115		
Titanium	100	30	ug/L	100		100	85-115		
Zinc	99.8	5	ug/L	100		100	85-115		
LCS Dup (B432329-BSD1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:35					
Aluminum	932	2	ug/L	1000		93	85-115	5	20
Antimony	100	5	ug/L	100		100	85-115	5	20
Barium	95.6	3	ug/L	100		96	85-115	4	20
Beryllium	91.7	0.5	ug/L	100		92	85-115	9	20
Boron	97.1	20	ug/L	100		97	85-115	6	20
Cadmium	96.8	1	ug/L	100		97	85-115	4	20
Chromium	95.2	3	ug/L	100		95	85-115	5	20
Cobalt	97.4	0.3	ug/L	100		97	85-115	5	20
Copper	94.8	2	ug/L	100		95	85-115	4	20
Iron	905	7	ug/L	1000		91	85-115	5	20
Lead	95.0	0.5	ug/L	100		95	85-115	2	20
Magnesium	1010	20	ug/L	1000		101	85-115	6	20
Manganese	90.6	0.5	ug/L	100		91	85-115	5	20
Molybdenum	96.0	1	ug/L	100		96	85-115	4	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432329 - EPA 200.8										
LCS Dup (B432329-BSD1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:35						
Nickel	96.4	2	ug/L	100		96	85-115	5	20	
Silver	85.7	0.5	ug/L	100		86	85-115	5	20	
Thallium	94.3	0.5	ug/L	100		94	85-115	2	20	
Tin	96.0	5	ug/L	100		96	85-115	6	20	
Titanium	95.9	30	ug/L	100		96	85-115	5	20	
Zinc	95.6	5	ug/L	100		96	85-115	4	20	
Duplicate (B432329-DUP1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:42						
Aluminum	14.3	2	ug/L		14.3			0.07	20	
Antimony	<5	5	ug/L		<5				20	
Barium	53.2	3	ug/L		50.8			5	20	
Beryllium	0.0466	0.5	ug/L		0.0283			49	20	S
Boron	1090	20	ug/L		1070			1	20	
Cadmium	0.0512	1	ug/L		0.0466			9	20	
Chromium	<3	3	ug/L		<3				20	
Cobalt	0.400	0.3	ug/L		0.381			5	20	
Copper	2.17	2	ug/L		2.43			11	20	
Iron	155	7	ug/L		151			2	20	
Lead	0.179	0.5	ug/L		0.131			31	20	S
Magnesium	54400	20	ug/L		52000			5	20	
Manganese	11.9	0.5	ug/L		8.46			33	20	S
Molybdenum	4.16	1	ug/L		4.24			2	20	
Nickel	5.39	2	ug/L		5.33			1	20	
Silver	0.0653	0.5	ug/L		0.0887			30	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	2.37	30	ug/L		1.96			19	20	
Zinc	12.7	5	ug/L		12.5			2	20	
Matrix Spike (B432329-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:46						
Aluminum	1020	2	ug/L	1000	14.3	101	75-125			
Antimony	112	5	ug/L	100	<5	112	75-125			
Barium	149	3	ug/L	100	50.8	98	75-125			
Beryllium	97.9	0.5	ug/L	100	0.0283	98	75-125			
Boron	1130	20	ug/L	100	1070	56	75-125			M
Cadmium	102	1	ug/L	100	0.0466	102	75-125			

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432329 - EPA 200.8										
Matrix Spike (B432329-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50		Analyzed: 08/14/24 12:46				
Chromium	95.9	3	ug/L	100	<3	96	75-125			
Cobalt	95.1	0.3	ug/L	100	0.381	95	75-125			
Copper	91.4	2	ug/L	100	2.43	89	75-125			
Iron	1030	7	ug/L	1000	151	88	75-125			
Lead	103	0.5	ug/L	100	0.131	103	75-125			
Magnesium	51400	20	ug/L	1000	52000	NR	75-125			M
Manganese	102	0.5	ug/L	100	8.46	94	75-125			
Molybdenum	109	1	ug/L	100	4.24	104	75-125			
Nickel	95.3	2	ug/L	100	5.33	90	75-125			
Silver	96.3	0.5	ug/L	100	0.0887	96	75-125			
Thallium	105	0.5	ug/L	100	<0.5	105	75-125			
Tin	103	5	ug/L	100	<5	103	75-125			
Titanium	101	30	ug/L	100	1.96	99	75-125			
Zinc	109	5	ug/L	100	12.5	97	75-125			
Matrix Spike Dup (B432329-MSD1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50		Analyzed: 08/14/24 12:50				
Aluminum	1100	2	ug/L	1000	14.3	108	75-125	7	20	
Antimony	118	5	ug/L	100	<5	118	75-125	5	20	
Barium	159	3	ug/L	100	50.8	108	75-125	7	20	
Beryllium	102	0.5	ug/L	100	0.0283	102	75-125	4	20	
Boron	1210	20	ug/L	100	1070	134	75-125	7	20	M
Cadmium	106	1	ug/L	100	0.0466	106	75-125	4	20	
Chromium	99.8	3	ug/L	100	<3	100	75-125	4	20	
Cobalt	98.2	0.3	ug/L	100	0.381	98	75-125	3	20	
Copper	94.2	2	ug/L	100	2.43	92	75-125	3	20	
Iron	1080	7	ug/L	1000	151	93	75-125	5	20	
Lead	107	0.5	ug/L	100	0.131	107	75-125	4	20	
Magnesium	55800	20	ug/L	1000	52000	385	75-125	8	20	M
Manganese	107	0.5	ug/L	100	8.46	99	75-125	5	20	
Molybdenum	113	1	ug/L	100	4.24	109	75-125	4	20	
Nickel	99.3	2	ug/L	100	5.33	94	75-125	4	20	
Silver	99.9	0.5	ug/L	100	0.0887	100	75-125	4	20	
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	5	20	
Tin	108	5	ug/L	100	<5	108	75-125	5	20	
Titanium	106	30	ug/L	100	1.96	104	75-125	5	20	
Zinc	113	5	ug/L	100	12.5	101	75-125	4	20	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Blank (B432226-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*129*		*ug/L*	*200*		*65*	*18.3-110*			

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San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Blank (B432226-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57						
Surrogate: 2-Fluorobiphenyl	*45.4*		*ug/L*	*100*		*45*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*76.1*		*ug/L*	*200*		*38*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*53.4*		*ug/L*	*100*		*53*	*8.98-84*			
Surrogate: Phenol-d5	*55.4*		*ug/L*	*200*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*74.9*		*ug/L*	*100*		*75*	*8.46-114*			
LCS (B432226-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19						
1,2,4,5-Tetrachlorobenzene	48.1	20	ug/L	80.0		60	0.449-117			
2,4,5-Trichlorophenol	57.4	50	ug/L	80.0		72	20-108			
2,4,6-Trichlorophenol	57.2	10	ug/L	80.0		71	37-144			
2,4-Dichlorophenol	47.4	10	ug/L	80.0		59	39-135			
2,4-Dimethylphenol	56.9	10	ug/L	80.0		71	32-119			
2,4-Dinitrophenol	101	50	ug/L	80.0		127	5-191			CH
2-Chlorophenol	44.3	10	ug/L	80.0		55	23-134			
o-Cresol	42.0	10	ug/L	80.0		52	8-87			
2-Nitrophenol	69.0	20	ug/L	80.0		86	29-182			CH
3,3´-Dichlorobenzidine	68.9	5	ug/L	80.0		86	4.34-262			
m-Cresol & p-Cresol	41.1	10	ug/L	80.0		51	6-85			
4,6-Dinitro-o-cresol	107	50	ug/L	80.0		133	5-181			CH
p-Chloro-m-cresol	52.6	10	ug/L	80.0		66	22-147			
4-Nitrophenol	39.0	50	ug/L	80.0		49	5-132			
Anthracene	61.9	10	ug/L	80.0		77	27-133			
Benz(a)anthracene	61.7	5	ug/L	80.0		77	33-143			
Benzidine	78.1	50	ug/L	80.0		98	5-73			L
Benzo(a)pyrene	69.9	5	ug/L	80.0		87	17-163			
Bis(2-Chloroethyl)ether	37.1	10	ug/L	80.0		46	12-158			CL
Bis(2-Ethylhexyl)phthalate	61.5	10	ug/L	80.0		77	8-158			
Chrysene	56.3	5	ug/L	80.0		70	17-168			
Di-n-butylphthalate	59.9	10	ug/L	80.0		75	1-118			
Hexachlorobenzene	62.5	5	ug/L	80.0		78	5-152			
Hexachlorobutadiene	36.8	10	ug/L	80.0		46	24-116			
Hexachlorocyclopentadiene	37.3	10	ug/L	80.0		47	12-69			
Hexachloroethane	31.4	20	ug/L	80.0		39	40-113			L
Nitrobenzene	48.9	10	ug/L	80.0		61	35-180			
N-Nitrosodiethylamine	42.8	20	ug/L	80.0		54	-2.55-178			
N-Nitrosodi-n-butylamine	41.6	20	ug/L	80.0		52	-4.28-193			

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Report No. 2407576

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
LCS (B432226-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19						
Pentachlorobenzene	56.7	20	ug/L	80.0		71	-1.08-131			
Pentachlorophenol	70.8	5	ug/L	80.0		88	14-176			
Phenanthrene	56.0	10	ug/L	80.0		70	54-120			
Phenol	24.4	10	ug/L	80.0		30	5-112			
Pyridine	28.6	20	ug/L	80.0		36	5-73			
Surrogate: 2,4,6-Tribromophenol	*175*		*ug/L*	*200*		*87*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*60.9*		*ug/L*	*100*		*61*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*74.1*		*ug/L*	*200*		*37*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.0*		*ug/L*	*100*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*53.6*		*ug/L*	*200*		*27*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*88.7*		*ug/L*	*100*		*89*	*8.46-114*			
LCS Dup (B432226-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40						
1,2,4,5-Tetrachlorobenzene	50.0	20	ug/L	80.0		63	0.449-117	4	25.7	
2,4,5-Trichlorophenol	56.1	50	ug/L	80.0		70	20-108	2	64	
2,4,6-Trichlorophenol	55.6	10	ug/L	80.0		70	37-144	3	67	
2,4-Dichlorophenol	48.7	10	ug/L	80.0		61	39-135	3	70	
2,4-Dimethylphenol	56.8	10	ug/L	80.0		71	32-119	0.1	72	
2,4-Dinitrophenol	100	50	ug/L	80.0		125	5-191	1	142	CH
2-Chlorophenol	44.3	10	ug/L	80.0		55	23-134	0.2	67	
o-Cresol	42.1	10	ug/L	80.0		53	8-87	0.3	59	
2-Nitrophenol	72.0	20	ug/L	80.0		90	29-182	4	66	CH
3,3´-Dichlorobenzidine	64.1	5	ug/L	80.0		80	4.34-262	7	50	
m-Cresol & p-Cresol	42.8	10	ug/L	80.0		54	6-85	4	63	
4,6-Dinitro-o-cresol	109	50	ug/L	80.0		136	5-181	2	88	CH
p-Chloro-m-cresol	49.4	10	ug/L	80.0		62	22-147	6	66	
4-Nitrophenol	37.1	50	ug/L	80.0		46	5-132	5	84	
Anthracene	56.9	10	ug/L	80.0		71	27-133	8	64	
Benz(a)anthracene	58.0	5	ug/L	80.0		72	33-143	6	65	
Benzidine	63.0	50	ug/L	80.0		79	5-73	21	87	L
Benzo(a)pyrene	64.2	5	ug/L	80.0		80	17-163	9	69	
Bis(2-Chloroethyl)ether	37.3	10	ug/L	80.0		47	12-158	0.4	40	CL
Bis(2-Ethylhexyl)phthalate	59.1	10	ug/L	80.0		74	8-158	4	72	
Chrysene	51.6	5	ug/L	80.0		64	17-168	9	65	
Di-n-butylphthalate	55.6	10	ug/L	80.0		69	1-118	7	68	
Hexachlorobenzene	56.5	5	ug/L	80.0		71	5-152	10	69	

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Report No. 2407576

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
LCS Dup (B432226-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40						
Hexachlorobutadiene	36.5	10	ug/L	80.0		46	24-116	0.9	49	
Hexachlorocyclopentadiene	38.5	10	ug/L	80.0		48	12-69	3	65	
Hexachloroethane	33.1	20	ug/L	80.0		41	40-113	5	42	
Nitrobenzene	49.3	10	ug/L	80.0		62	35-180	0.9	41	
N-Nitrosodiethylamine	44.2	20	ug/L	80.0		55	-2.55-178	3	29	
N-Nitrosodi-n-butylamine	39.7	20	ug/L	80.0		50	-4.28-193	5	37.8	
Pentachlorobenzene	54.2	20	ug/L	80.0		68	-1.08-131	4	25.5	
Pentachlorophenol	67.4	5	ug/L	80.0		84	14-176	5	50	
Phenanthrene	52.0	10	ug/L	80.0		65	54-120	7	66	
Phenol	22.9	10	ug/L	80.0		29	5-112	7	69	
Pyridine	28.5	20	ug/L	80.0		36	5-73	0.6	36	
Surrogate: 2,4,6-Tribromophenol	*160*		*ug/L*	*200*		*80*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*58.4*		*ug/L*	*100*		*58*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*77.5*		*ug/L*	*200*		*39*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.8*		*ug/L*	*100*		*62*	*8.98-84*			
Surrogate: Phenol-d5	*56.4*		*ug/L*	*200*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*80.3*		*ug/L*	*100*		*80*	*8.46-114*			
Matrix Spike (B432226-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44						
1,2,4,5-Tetrachlorobenzene	106	20	ug/L	160	<20	66	26.5-68.5			
2,4,5-Trichlorophenol	110	50	ug/L	160	<50	69	44.1-94.9			
2,4,6-Trichlorophenol	108	10	ug/L	160	<10	67	42.8-89.7			
2,4-Dichlorophenol	96.4	10	ug/L	160	<10	60	42.7-83.2			
2,4-Dimethylphenol	108	10	ug/L	160	<10	68	35.5-84.8			
2,4-Dinitrophenol	195	50	ug/L	160	<50	122	12.9-135			CH
2-Chlorophenol	86.1	10	ug/L	160	<10	54	42.6-73.1			
o-Cresol	79.8	10	ug/L	160	<10	50	45.4-61.4			
2-Nitrophenol	138	20	ug/L	160	<20	86	45.6-74.3			CH M
3,3´-Dichlorobenzidine	114	5	ug/L	160	<5	71	25-203			
m-Cresol & p-Cresol	78.2	10	ug/L	160	<10	49	3-75			
4,6-Dinitro-o-cresol	206	50	ug/L	160	<50	129	26.6-112			CH M
p-Chloro-m-cresol	99.6	10	ug/L	160	<10	62	32.5-89.3			
4-Nitrophenol	74.1	50	ug/L	160	<50	46	8-58			
Anthracene	108	10	ug/L	160	<10	68	50.1-92.2			
Benz(a)anthracene	113	5	ug/L	160	<5	71	36.3-111			
Benzidine	21.6	50	ug/L	160	<50	13	15-150			M

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Matrix Spike (B432226-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44						
Benzo(a)pyrene	126	5	ug/L	160	<5	79	27.5-124			
Bis(2-Chloroethyl)ether	69.7	10	ug/L	160	<10	44	38.3-70.8			CL
Bis(2-Ethylhexyl)phthalate	116	10	ug/L	160	<10	72	13.2-168			
Chrysene	115	5	ug/L	160	<5	72	40.6-101			
Di-n-butylphthalate	109	10	ug/L	160	<10	68	27.4-123			
Hexachlorobenzene	112	5	ug/L	160	<5	70	49.6-94.3			
Hexachlorobutadiene	79.8	10	ug/L	160	<10	50	44-74.7			
Hexachlorocyclopentadiene	78.7	10	ug/L	160	<10	49	47.3-73			
Hexachloroethane	67.5	20	ug/L	160	<20	42	37.1-86.8			
Nitrobenzene	96.6	10	ug/L	160	<10	60	42.3-89.2			
N-Nitrosodiethylamine	86.3	20	ug/L	160	<20	54	37.4-148			
N-Nitrosodi-n-butylamine	81.2	20	ug/L	160	<20	51	39.8-163			
Pentachlorobenzene	109	20	ug/L	160	<20	68	31.6-77.8			
Pentachlorophenol	130	5	ug/L	160	<5	81	31-117			
Phenanthrene	102	10	ug/L	160	<10	63	48.4-95.5			
Phenol	45.4	10	ug/L	160	<10	28	6-39			
Pyridine	45.1	20	ug/L	160	<20	28	4-58			
Surrogate: 2,4,6-Tribromophenol	*309*		*ug/L*	*400*		*77*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*113*		*ug/L*	*200*		*57*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*151*		*ug/L*	*400*		*38*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*122*		*ug/L*	*200*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*112*		*ug/L*	*400*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*157*		*ug/L*	*200*		*78*	*8.46-114*			

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432225 - ASTM D7065-11									
Blank (B432225-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*126*		*ug/L*	*200*		*63*	*5-89.9*		
Surrogate: Phenol-d5	*48.3*		*ug/L*	*200*		*24*	*5-64.3*		

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Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432225 - ASTM D7065-11									
Blank (B432225-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57					
Surrogate: 2-Fluorobiphenyl	*44.8*		*ug/L*	*100*		*45*	*27-111*		
Surrogate: 2-Fluorophenol	*63.9*		*ug/L*	*200*		*32*	*5-64.3*		
Surrogate: Terphenyl-d14	*69.6*		*ug/L*	*100*		*70*	*5-114*		
Surrogate: Nitrobenzene-d5	*44.6*		*ug/L*	*100*		*45*	*22-117*		
LCS (B432225-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19					
Nonylphenol	379	333	ug/L	500		76	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*171*		*ug/L*	*200*		*85*	*5-89.9*		
Surrogate: Phenol-d5	*46.7*		*ug/L*	*200*		*23*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*60.1*		*ug/L*	*100*		*60*	*27-111*		
Surrogate: Terphenyl-d14	*82.4*		*ug/L*	*100*		*82*	*5-114*		
Surrogate: 2-Fluorophenol	*62.3*		*ug/L*	*200*		*31*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*50.9*		*ug/L*	*100*		*51*	*22-117*		
LCS Dup (B432225-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40					
Nonylphenol	348	333	ug/L	500		70	32.3-103	9	21.4
Surrogate: 2,4,6-Tribromophenol	*156*		*ug/L*	*200*		*78*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*57.6*		*ug/L*	*100*		*58*	*27-111*		
Surrogate: Phenol-d5	*49.2*		*ug/L*	*200*		*25*	*5-64.3*		
Surrogate: Terphenyl-d14	*74.6*		*ug/L*	*100*		*75*	*5-114*		
Surrogate: 2-Fluorophenol	*65.1*		*ug/L*	*200*		*33*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*51.5*		*ug/L*	*100*		*52*	*22-117*		
Matrix Spike (B432225-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44					
Nonylphenol	673	333	ug/L	1000	<333	67	26-117		
Surrogate: 2,4,6-Tribromophenol	*301*		*ug/L*	*400*		*75*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*112*		*ug/L*	*200*		*56*	*27-111*		
Surrogate: Phenol-d5	*97.9*		*ug/L*	*400*		*24*	*5-64.3*		
Surrogate: 2-Fluorophenol	*127*		*ug/L*	*400*		*32*	*5-64.3*		
Surrogate: Terphenyl-d14	*146*		*ug/L*	*200*		*73*	*5-114*		
Surrogate: Nitrobenzene-d5	*102*		*ug/L*	*200*		*51*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Blank (B431310-BLK1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:06					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.298*		*ug/L*	*0.500*		*60*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.198*		*ug/L*	*0.500*		*40*	*10.2-92.4*		
LCS (B431310-BS1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:17					
PCB 1016	3.12	0.2	ug/L	5.00		62	13.9-125		
PCB 1260	3.60	0.2	ug/L	5.00		72	29.3-140		
Surrogate: Decachlorobiphenyl	*0.216*		*ug/L*	*0.500*		*43*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.281*		*ug/L*	*0.500*		*56*	*10.2-92.4*		
LCS Dup (B431310-BSD1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:28					
PCB 1016	2.98	0.2	ug/L	5.00		60	13.9-125	4	29.5
PCB 1260	3.67	0.2	ug/L	5.00		73	29.3-140	2	23.1
Surrogate: Decachlorobiphenyl	*0.221*		*ug/L*	*0.500*		*44*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.287*		*ug/L*	*0.500*		*57*	*10.2-92.4*		
Matrix Spike (B431310-MS1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:01					
PCB 1016	2.34	0.2	ug/L	5.00	<0.2	47	23.5-116		
PCB 1260	2.79	0.2	ug/L	5.00	<0.2	56	13.3-134		
Surrogate: Decachlorobiphenyl	*0.363*		*ug/L*	*0.500*		*73*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.269*		*ug/L*	*0.500*		*54*	*10.2-92.4*		
Matrix Spike Dup (B431310-MSD1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:13					
PCB 1016	2.61	0.2	ug/L	5.00	<0.2	52	23.5-116	11	52
PCB 1260	3.10	0.2	ug/L	5.00	<0.2	62	13.3-134	10	40
Surrogate: Decachlorobiphenyl	*0.389*		*ug/L*	*0.500*		*78*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.282*		*ug/L*	*0.500*		*56*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
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07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*		
Surrogate: Dibromofluoromethane	*48.3*		*ug/L*	*50.0*		*97*	*83-118*		
Surrogate: Toluene-d8	*50.5*		*ug/L*	*50.0*		*101*	*91-109*		

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Report No. 2407576

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
1,1,1-Trichloroethane	46.6	10	ug/L	50.0		93	70-130		
1,1,2,2-Tetrachloroethane	61.7	10	ug/L	50.0		123	60-140		
1,1,2-Trichloroethane	55.6	10	ug/L	50.0		111	70-130		
1,1-Dichloroethane	48.5	10	ug/L	50.0		97	70-130		
1,1-Dichloroethylene	46.8	10	ug/L	50.0		94	50-150		
1,2-Dibromoethane	56.0	10	ug/L	50.0		112	71.6-124		
o-Dichlorobenzene	55.8	10	ug/L	50.0		112	65-135		
1,2-Dichloroethane	50.9	10	ug/L	50.0		102	70-130		
1,2-Dichloropropane	56.3	10	ug/L	50.0		113	35-165		
m-Dichlorobenzene	55.2	10	ug/L	50.0		110	70-130		
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		
p-Dichlorobenzene	54.3	10	ug/L	50.0		109	65-135		
2-Chloroethyl Vinyl Ether	55.0	10	ug/L	50.0		110	1-225		
Acrolein	60.5	50	ug/L	50.0		121	60-140		
Acrylonitrile	47.4	50	ug/L	50.0		95	60-140		
Benzene	46.8	10	ug/L	50.0		94	65-135		
Dichlorobromomethane [Bromodichloromethane]	54.2	10	ug/L	50.0		108	65-135		
Bromoform	52.0	10	ug/L	50.0		104	70-130		
Methyl Bromide	44.8	50	ug/L	50.0		90	15-185		
Carbon Tetrachloride	46.0	2	ug/L	50.0		92	70-130		
Chlorobenzene	53.4	10	ug/L	50.0		107	65-135		
Chloroethane	48.6	50	ug/L	50.0		97	40-160		
Chloroform	47.5	10	ug/L	50.0		95	70-135		
Methyl Chloride	51.5	50	ug/L	50.0		103	1-205		
Dibromochloromethane [Chlorodibromomethane]	54.3	10	ug/L	50.0		109	70-135		
Ethylbenzene	54.4	10	ug/L	50.0		109	60-140		
Methyl Ethyl Ketone (2-Butanone)	49.5	50	ug/L	50.0		99	56.5-136		
Dichloromethane [Methylene Chloride]	50.4	20	ug/L	50.0		101	60-140		
Tetrachloroethylene [Tetrachloroethene]	45.5	10	ug/L	50.0		91	70-130		
Toluene	47.9	10	ug/L	50.0		96	70-130		
trans-1,2-Dichloroethylene	47.9	10	ug/L	50.0		96	70-130		
Trichloroethylene [Trichloroethene]	52.7	10	ug/L	50.0		105	65-135		
Vinyl chloride [Chloroethene]	53.1	10	ug/L	50.0		106	5-195		

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Report No. 2407576

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99*	*83-118*		
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98*	*91-109*		
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
1,1,1-Trichloroethane	46.5	10	ug/L	50.0		93	70-130	0.2	36
1,1,2,2-Tetrachloroethane	56.0	10	ug/L	50.0		112	60-140	10	61
1,1,2-Trichloroethane	52.4	10	ug/L	50.0		105	70-130	6	45
1,1-Dichloroethane	48.8	10	ug/L	50.0		98	70-130	0.6	40
1,1-Dichloroethylene	48.0	10	ug/L	50.0		96	50-150	3	32
1,2-Dibromoethane	51.2	10	ug/L	50.0		102	71.6-124	9	20.3
o-Dichlorobenzene	52.3	10	ug/L	50.0		105	65-135	7	57
1,2-Dichloroethane	50.3	10	ug/L	50.0		101	70-130	1	49
1,2-Dichloropropane	54.7	10	ug/L	50.0		109	35-165	3	55
m-Dichlorobenzene	53.3	10	ug/L	50.0		107	70-130	3	43
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		200
p-Dichlorobenzene	52.1	10	ug/L	50.0		104	65-135	4	57
2-Chloroethyl Vinyl Ether	50.0	10	ug/L	50.0		100	1-225	10	71
Acrolein	53.8	50	ug/L	50.0		108	60-140	12	60
Acrylonitrile	42.9	50	ug/L	50.0		86	60-140	10	60
Benzene	46.0	10	ug/L	50.0		92	65-135	2	61
Dichlorobromomethane [Bromodichloromethane]	52.3	10	ug/L	50.0		105	65-135	3	56
Bromoform	46.8	10	ug/L	50.0		94	70-130	11	42
Methyl Bromide	46.1	50	ug/L	50.0		92	15-185	3	61
Carbon Tetrachloride	46.6	2	ug/L	50.0		93	70-130	1	41
Chlorobenzene	51.3	10	ug/L	50.0		103	65-135	4	53
Chloroethane	50.2	50	ug/L	50.0		100	40-160	3	78
Chloroform	47.2	10	ug/L	50.0		94	70-135	0.8	54
Methyl Chloride	55.2	50	ug/L	50.0		110	1-205	7	60
Dibromochloromethane [Chlorodibromomethane]	51.2	10	ug/L	50.0		102	70-135	6	50
Ethylbenzene	51.6	10	ug/L	50.0		103	60-140	5	63
Methyl Ethyl Ketone (2-Butanone)	42.7	50	ug/L	50.0		85	56.5-136	15	30.7
Dichloromethane [Methylene Chloride]	50.3	20	ug/L	50.0		101	60-140	0.4	28

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Report No. 2407576

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
Tetrachloroethylene [Tetrachloroethene]	42.7	10	ug/L	50.0		85	70-130	6	39
Toluene	47.0	10	ug/L	50.0		94	70-130	2	41
trans-1,2-Dichloroethylene	48.4	10	ug/L	50.0		97	70-130	1	45
Trichloroethylene [Trichloroethene]	50.6	10	ug/L	50.0		101	65-135	4	48
Vinyl chloride [Chloroethene]	57.4	10	ug/L	50.0		115	5-195	8	66
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.0*		*102*	*83-118*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*		
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02					
1,1,1-Trichloroethane	<10	10	ug/L		<10				20
1,1,2,2-Tetrachloroethane	<10	10	ug/L		<10				20
1,1,2-Trichloroethane	<10	10	ug/L		<10				20
1,1-Dichloroethane	<10	10	ug/L		<10				20
1,1-Dichloroethylene	<10	10	ug/L		<10				20
1,2-Dibromoethane	<10	10	ug/L		<10				20
o-Dichlorobenzene	<10	10	ug/L		<10				20
1,2-Dichloroethane	<10	10	ug/L		<10				20
1,2-Dichloropropane	<10	10	ug/L		<10				20
m-Dichlorobenzene	<10	10	ug/L		<10				20
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10				200
p-Dichlorobenzene	<10	10	ug/L		<10				20
2-Chloroethyl Vinyl Ether	<10	10	ug/L		<10				20
Acrolein	<50	50	ug/L		<50				20
Acrylonitrile	<50	50	ug/L		<50				20
Benzene	<10	10	ug/L		<10				20
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L		<10				20
Bromoform	<10	10	ug/L		<10				20
Methyl Bromide	<50	50	ug/L		<50				20
Carbon Tetrachloride	<2	2	ug/L		<2				20
Chlorobenzene	<10	10	ug/L		<10				20
Chloroethane	<50	50	ug/L		<50				20
Chloroform	<10	10	ug/L		<10				20
Methyl Chloride	<50	50	ug/L		<50				20

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L		<10				20	
Ethylbenzene	<10	10	ug/L		<10				20	
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L		<50				20	
Dichloromethane [Methylene Chloride]	<20	20	ug/L		<20				20	
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L		<10				20	
Toluene	<10	10	ug/L		<10				20	
trans-1,2-Dichloroethylene	<10	10	ug/L		<10				20	
Trichloroethylene [Trichloroethene]	<10	10	ug/L		<10				20	
Vinyl chloride [Chloroethene]	<10	10	ug/L		<10				20	
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.0*		*99*	*80-106*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.0*		*103*	*83-118*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:30						
1,1,1-Trichloroethane	48.1	10	ug/L	50.0	<10	96	52-162			
1,1,2,2-Tetrachloroethane	60.4	10	ug/L	50.0	<10	121	46-157			
1,1,2-Trichloroethane	53.7	10	ug/L	50.0	<10	107	52-150			
1,1-Dichloroethane	50.6	10	ug/L	50.0	<10	101	59-155			
1,1-Dichloroethylene	49.7	10	ug/L	50.0	<10	99	1-234			
1,2-Dibromoethane	52.0	10	ug/L	50.0	<10	104	64.7-132			
o-Dichlorobenzene	53.2	10	ug/L	50.0	<10	106	18-190			
1,2-Dichloroethane	52.7	10	ug/L	50.0	<10	105	49-155			
1,2-Dichloropropane	57.0	10	ug/L	50.0	<10	114	1-210			
m-Dichlorobenzene	52.6	10	ug/L	50.0	<10	105	59-156			
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10		0-200			
p-Dichlorobenzene	51.2	10	ug/L	50.0	<10	102	18-190			
2-Chloroethyl Vinyl Ether	52.7	10	ug/L	50.0	<10	105	1-305			
Acrolein	7.83	50	ug/L	50.0	<50	16	40-160			M
Acrylonitrile	46.4	50	ug/L	50.0	<50	93	40-160			
Benzene	47.2	10	ug/L	50.0	<10	94	37-151			
Dichlorobromomethane [Bromodichloromethane]	54.0	10	ug/L	50.0	<10	108	35-155			
Bromoform	48.6	10	ug/L	50.0	<10	97	45-169			
Methyl Bromide	44.6	50	ug/L	50.0	<50	89	1-242			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:30				
Carbon Tetrachloride	47.0	2	ug/L	50.0	<2	94	70-140			
Chlorobenzene	51.0	10	ug/L	50.0	<10	102	37-160			
Chloroethane	50.5	50	ug/L	50.0	<50	101	14-230			
Chloroform	48.5	10	ug/L	50.0	<10	97	51-138			
Methyl Chloride	58.4	50	ug/L	50.0	<50	117	1-273			
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0	<10	104	53-149			
Ethylbenzene	51.7	10	ug/L	50.0	<10	103	37-162			
Methyl Ethyl Ketone (2-Butanone)	50.0	50	ug/L	50.0	<50	100	41.9-177			
Dichloromethane [Methylene Chloride]	50.7	20	ug/L	50.0	<20	101	1-221			
Tetrachloroethylene [Tetrachloroethene]	44.1	10	ug/L	50.0	<10	88	64-148			
Toluene	46.8	10	ug/L	50.0	<10	94	47-150			
trans-1,2-Dichloroethylene	49.4	10	ug/L	50.0	<10	99	54-156			
Trichloroethylene [Trichloroethene]	50.5	10	ug/L	50.0	<10	101	70-157			
Vinyl chloride [Chloroethene]	55.3	10	ug/L	50.0	<10	111	1-251			
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50.0*		*105*	*80-106*			
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.0*		*106*	*83-118*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:59				
1,1,1-Trichloroethane	45.6	10	ug/L	50.0	<10	91	52-162	5	36	
1,1,2,2-Tetrachloroethane	60.3	10	ug/L	50.0	<10	121	46-157	0.2	61	
1,1,2-Trichloroethane	52.1	10	ug/L	50.0	<10	104	52-150	3	45	
1,1-Dichloroethane	48.2	10	ug/L	50.0	<10	96	59-155	5	40	
1,1-Dichloroethylene	47.0	10	ug/L	50.0	<10	94	1-234	6	32	
1,2-Dibromoethane	51.2	10	ug/L	50.0	<10	102	64.7-132	2	26.5	
o-Dichlorobenzene	50.9	10	ug/L	50.0	<10	102	18-190	4	57	
1,2-Dichloroethane	50.7	10	ug/L	50.0	<10	101	49-155	4	49	
1,2-Dichloropropane	54.4	10	ug/L	50.0	<10	109	1-210	5	55	
m-Dichlorobenzene	49.8	10	ug/L	50.0	<10	100	59-156	6	43	
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10		0-200		200	
p-Dichlorobenzene	49.3	10	ug/L	50.0	<10	99	18-190	4	57	
2-Chloroethyl Vinyl Ether	52.2	10	ug/L	50.0	<10	104	1-305	1	71	
Acrolein	2.85	50	ug/L	50.0	<50	6	40-160	93	60	M S
Acrylonitrile	46.8	50	ug/L	50.0	<50	94	40-160	0.8	60	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
12/19/24 17:37
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407576_1 1-SATL1 08 14 24 1708) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407576

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:59						
Benzene	44.9	10	ug/L	50.0	<10	90	37-151	5	61	
Dichlorobromomethane [Bromodichloromethane]	52.2	10	ug/L	50.0	<10	104	35-155	3	56	
Bromoform	48.5	10	ug/L	50.0	<10	97	45-169	0.2	42	
Methyl Bromide	43.2	50	ug/L	50.0	<50	86	1-242	3	61	
Carbon Tetrachloride	44.6	2	ug/L	50.0	<2	89	70-140	5	41	
Chlorobenzene	48.6	10	ug/L	50.0	<10	97	37-160	5	53	
Chloroethane	47.4	50	ug/L	50.0	<50	95	14-230	6	78	
Chloroform	46.6	10	ug/L	50.0	<10	93	51-138	4	54	
Methyl Chloride	54.4	50	ug/L	50.0	<50	109	1-273	7	60	
Dibromochloromethane [Chlorodibromomethane]	50.5	10	ug/L	50.0	<10	101	53-149	3	50	
Ethylbenzene	49.2	10	ug/L	50.0	<10	98	37-162	5	63	
Methyl Ethyl Ketone (2-Butanone)	51.2	50	ug/L	50.0	<50	102	41.9-177	3	21.3	
Dichloromethane [Methylene Chloride]	48.4	20	ug/L	50.0	<20	97	1-221	5	28	
Tetrachloroethylene [Tetrachloroethene]	41.6	10	ug/L	50.0	<10	83	64-148	6	39	
Toluene	44.6	10	ug/L	50.0	<10	89	47-150	5	41	
trans-1,2-Dichloroethylene	47.3	10	ug/L	50.0	<10	95	54-156	4	45	
Trichloroethylene [Trichloroethene]	47.7	10	ug/L	50.0	<10	95	70-157	6	48	
Vinyl chloride [Chloroethene]	52.8	10	ug/L	50.0	<10	106	1-251	5	66	
Surrogate: 4-Bromofluorobenzene	*53.4*		*ug/L*	*50.0*		*107*	*80-106*			*SurrH*
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*83-118*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*			

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						

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Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*48.3*		*ug/L*	*50.0*		*97*	*81.2-126*		
Surrogate: Toluene-d8	*50.5*		*ug/L*	*50.0*		*101*	*87.4-109*		
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
Dichlorobromomethane [Bromodichloromethane]	54.2	2.50	ug/L	50.0		108	80-120		
Bromoform	52.0	2.50	ug/L	50.0		104	80-120		
Chloroform	47.5	2.50	ug/L	50.0		95	80-120		
Dibromochloromethane [Chlorodibromomethane]	54.3	2.50	ug/L	50.0		109	80-120		
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99*	*81.2-126*		
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98*	*87.4-109*		
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
Dichlorobromomethane [Bromodichloromethane]	52.3	2.50	ug/L	50.0		105	80-120	3	20
Bromoform	46.8	2.50	ug/L	50.0		94	80-120	11	20
Chloroform	47.2	2.50	ug/L	50.0		94	80-120	0.8	20
Dibromochloromethane [Chlorodibromomethane]	51.2	2.50	ug/L	50.0		102	80-120	6	20
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.0*		*102*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L		<2.50				20
Bromoform	<2.50	2.50	ug/L		<2.50				20
Chloroform	<2.50	2.50	ug/L		<2.50				20
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L		<2.50				20
Total Trihalomethanes	<10.0	10.0	ug/L		<10.0				200
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.0*		*99*	*65.7-120*		

CPS Energy - Environmental Dept.
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Report No. 2407576

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:02			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.0*		*103*	*81.2-126*		
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:30			
Dichlorobromomethane [Bromodichloromethane]	54.0	2.50	ug/L	50.0	<2.50	108	80-120		
Bromoform	48.6	2.50	ug/L	50.0	<2.50	97	80-120		
Chloroform	48.5	2.50	ug/L	50.0	<2.50	97	80-120		
Dibromochloromethane [Chlorodibromomethane]	51.8	2.50	ug/L	50.0	<2.50	104	80-120		
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.0*		*106*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:59			
Dichlorobromomethane [Bromodichloromethane]	52.2	2.50	ug/L	50.0	<2.50	104	80-120	3	20
Bromoform	48.5	2.50	ug/L	50.0	<2.50	97	80-120	0.2	20
Chloroform	46.6	2.50	ug/L	50.0	<2.50	93	80-120	4	20
Dibromochloromethane [Chlorodibromomethane]	50.5	2.50	ug/L	50.0	<2.50	101	80-120	3	20
Surrogate: 4-Bromofluorobenzene	*53.4*		*ug/L*	*50.0*		*107*	*65.7-120*		
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		

CPS Energy - Environmental Dept.
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San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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Report No. 2407576

SAMPLE QUALIFIERS

Z	Fluoride Results 1.24 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
P2	Samples received at pH<2
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407576-01	CN_Sub
Eurofins - Pittsburgh	2407576-01	Color_SUB

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: 001 (3)

Reported:
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Report No. 2407576

Additional Notes:

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Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY CPS Energy	COMPANY	REPORT NUMBER 2407576
ADDRESS 12940 US HWY 181 S	ADDRESS	
CITY San Antonio STATE TX ZIP 78223	CITY STATE ZIP	E-MAIL
ATTN: PHONE #	ATTN: PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB PP 001 (3)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐

Field: pH:_____; Temp:_____°C; LCS/D:_____/_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO

INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO AUTHORIZE TO PROCEED _____
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____

SAMPLED BY: ISAAC Dotson / Katherine Cruz

OBSERVED TEMP. 1.9°C / CORRECTED TEMP. 1.1°C / TEMP. I.R. GUN # 7 / SAMPLE ICED ☐ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST/PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 6 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColl / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P. (See Attachment)	PRESERVED WITH: FCH 3OZ H2SO4 40ml HNO3 3OZ NaOH 3OZ PRESERVED IN THE LAB COMPOSITED IN THE LAB FILTERED IN THE LAB VOA AIR BUBBLES	REMARKS
1	7-31-24	0930		X								X			VHB 001	25	1189.5	mL									X	XXXXXX	

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
[signature]	7-31-24 1243	[signature]	JUL 31 2024				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Isaac Dotson	7-31-24 1243	Aimee Landon	1243				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☐ YES ☒ NO Eurofins	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: 001 (3)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407576

Work Order Due by:	08/09/24 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	07/31/24 12:43
Logged In By:	Aimee Landon	Date Logged In:	07/31/24 12:58

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.1°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/31/24 12:43*

SATL#FO001
Revised 09/15/2022

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet
(Process Water Outfalls)	1	CAL/VHB	External	Yes
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes
	3	CAL/VHB	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB	External	Yes
	8	CAL/VHB	External	Yes
	9	CAL/VHB	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Notes

Cyanide method OIA 1677

No E. coli sampling at VHB

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, inlet

VHB 4 sample kits needed for each outfall 001, inlet

4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

*Parameters Ordered from ATL All except Hg use detection limits from permit app table

Test America Cn

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____

(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): [redacted]

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** [redacted]

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** [redacted]

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☒ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☒ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☒ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

Table 4 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☒ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

Table 5 for Outfall No.:

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO_3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] **: Volatile Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: : Acid Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: : Base/Neutral Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

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JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177800-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



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Authorized for release by
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Job ID: 180-177800-1 — Eurofins Pittsburgh

Job Narrative
180-177800-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 8/1/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. There is no original received by name, date or time listed on the COC.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177800-1	2407576-01 (VHB 001)	Water	07/31/24 09:30	08/01/24 10:00

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Client Sample ID: 2407576-01 (VHB 001)
Lab Sample ID: 180-177800-1
Date Collected: 07/31/24 09:30
Matrix: Water
Date Received: 08/01/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	475698	08/02/24 09:03	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			476340	08/09/24 13:10	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

Client Sample ID: 2407576-01 (VHB 001)
Lab Sample ID: 180-177800-1
Date Collected: 07/31/24 09:30
Matrix: Water
Date Received: 08/01/24 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			08/02/24 09:03	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			08/02/24 09:03	1
pH at time of analysis (SM 2120B-2011)	**9.4**		0.10	0.10	SU			08/02/24 09:03	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			08/09/24 13:10	1

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177800-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-475698/1
Matrix: Water
Analysis Batch: 475698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			08/02/24 09:00	1
Color, True	ND		5.0	5.0	Color Units			08/02/24 09:00	1
pH at time of analysis	NA		0.10	0.10	SU			08/02/24 09:00	1

Lab Sample ID: 180-177800-1 DU
Matrix: Water
Analysis Batch: 475698

Client Sample ID: 2407576-01 (VHB 001)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color, Apparent	35		35.0		Color Units		0	20
Color, True	10		10.0		Color Units		0	20
pH at time of analysis	9.4		9.42		SU		0	

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-476340/26
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 12:48	1

Lab Sample ID: MB 180-476340/84
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 14:15	1

Lab Sample ID: LCS 180-476340/27
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	52.0		ug/L		104	82 - 132

Lab Sample ID: LCSD 180-476340/86
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Available	50.1	50.9		ug/L		102	82 - 132	2	20

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177800-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 475698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177800-1	2407576-01 (VHB 001)	Total/NA	Water	2120B-2011	
MB 180-475698/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-475698/2	Lab Control Sample	Total/NA	Water	2120B-2011	
180-177800-1 DU	2407576-01 (VHB 001)	Total/NA	Water	2120B-2011	

Analysis Batch: 476340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177800-1	2407576-01 (VHB 001)	Total/NA	Water	OIA - 1677	
MB 180-476340/26	Method Blank	Total/NA	Water	OIA - 1677	
MB 180-476340/84	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-476340/27	Lab Control Sample	Total/NA	Water	OIA - 1677	
LCSD 180-476340/86	Lab Control Sample Dup	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SAT	COMPANY SAT	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN Aimee Landon PHONE # 210-229-9920	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3 00 PM SHALL BEGIN AT 8·00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ

DATA TO TCEQ ❑ RRC ❑ Other (Specify) ❑ Field pH._____, Temp._____ °C, LCS/D._____|_____, Dup._____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO
PROPER CONTAINERS INTACT ❑ YES ❑ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ❑ YES ❑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ / SAMPLE ICED ❑ YES ❑ NO
TRRP 13 ❑ APPENDIX A ❑ PST PCLS ❑ SIM/LOW LEVEL ❑ TSDF Class 2 ❑ PERMIT ❑

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 6010 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	CN available 9014 Color colorimetric 2130 Bacti	PRESERVED WITH: HCl, HNO3, H2SO4, NaOH, NaOH+ZN Acetate, HgCl2, Na2S2O3, NaHSO4, MeOH, ZnOAc, Preserved in the Lab, Composited in the Lab, Filtered in the Lab, VOA Air Bubbles, Field	REMARKS
1	7/31/24	0930		X								X			2407576-01 (VHB001)	2	500ml	250ml								X	X			NP

180-177800 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Aimee Landon	DATE / TIME 7/31/24 1700	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME 8/1/24 1000	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ❑ (Initial) 5035 ❑ N/A ❑		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177800-1

Login Number: 177800

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 19, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2407577
RE: VHB Priority Pollutants
Project Number: Inlet Week 3

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 07/31/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
Received:
07/31/24 12:43

Additional Notes:

This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB Inlet	2407577-01	Liquid	Grab	07/31/24 10:15	07/31/24 12:43

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
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Additional Notes:
This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2407577-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 10:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	17.1	mg/L	0.10	SM 5310C	B432360	08/09/24 19:33	SM5310C	DD	
Total Alkalinity *	388	mg/L as CaCO3	20.0	SM2320B	B433198	08/12/24 10:30	SM2320B	JA	
Ammonia-Nitrogen *	<1.00	mg/L	1.00	SM4500NH3B	B431381	08/01/24 17:12	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	1.68	mg/L	1.00	EPA 351.3	B432189	08/05/24 14:00	EPA 351.3	JA	
Total Organic Nitrogen	1.68	mg/L	1.00	[CALC]	[CALC]	08/05/24 14:00	CALC	JA	
Sulfide *	<100	ug/L	100	EPA 376.2	B433186	08/05/24 09:40	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B433222	08/01/24 16:30	SM5540C	SG	
Total Dissolved Solids *	1450	mg/L	8.33	SM2540C	B432247	08/06/24 12:02	SM2540C	DD	
Total Suspended Solids *	13.0	mg/L	8.33	SM2540D	B431318	08/01/24 12:56	SM2540D	DD	
COD *	59.2	mg/L	5.00	H8000	B432277	08/07/24 18:27	H8000	DD	
pH *	9.23	pH Units	0.01	SM4500HB	B432168	08/01/24 08:52	SM4500HB	JA	H
pH measured @Temperature >>	68.2	°F	0.100	SM4500HB	B432168	08/01/24 08:52	SM2550B	JA	H
BOD-5 *	<2.00	mg/L	2.00	SM5210B	B432236	08/06/24 16:57	SM5210B	DD	
CBOD *	3.88	mg/L	2.00	SM5210B	B432240	08/06/24 13:00	SM5210B	DD	
Dissolved Oxygen *	11.1	mg/L	2.00	EPA 360.1	B431378	08/01/24 09:00	SM4500-O G	DD	H, UA
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B432359	08/09/24 16:08	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B432188	08/05/24 17:10	EPA 377.1	JA	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B433183	08/02/24 09:05	I-1230-85	JA	
Residual Chlorine *	0.01	mg/L	0.01	SM4500ClG	B432297	08/01/24 09:10	SM4500ClG	JA	
Total Phosphorous *	0.53	mg/L	0.05	EPA 365.3	B432180	08/02/24 12:50	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1240	ug/L	500	EPA 300.0	B432319	08/01/24 03:46	EPA 300.0	JA	Z
Chloride *	632	mg/L	5.00	EPA 300.0	B432319	08/01/24 03:46	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B432319	08/01/24 03:10	EPA 300.0	JA	
Bromide *	9250	ug/L	400	EPA 300.0	B432319	08/01/24 03:46	EPA 300.0	JA	
Nitrate as N *	<0.100	mg/L	0.100	EPA 300.0	B432319	08/01/24 03:46	EPA 300.0	JA	
Sulfate *	147	mg/L	5.00	EPA 300.0	B432319	08/01/24 03:46	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	<0.2000	mg/L	0.2000	[CALC]	[CALC]	08/01/24 03:46	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407577-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/31/24 10:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									**P2**
Aluminum *	13	ug/L	2	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Barium *	54	ug/L	3	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Boron *	1100	ug/L	20	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Cobalt *	0.4	ug/L	0.3	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Copper *	3	ug/L	2	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Iron *	158	ug/L	7	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Magnesium *	54100	ug/L	20	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Manganese *	9	ug/L	0.5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Nickel *	5	ug/L	2	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Tin *	<5	ug/L	5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Zinc *	11	ug/L	5	EPA 200.8	B432329	08/14/24 13:11	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	08/14/24 13:11	CALC	JA	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	CH
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
Received:
07/31/24 12:43

Additional Notes:
This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407577-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/31/24 10:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B432226	08/08/24 14:23	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*47 %*	*18.3-110*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*41 %*	*15.6-80.4*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*21 %*	*2.8-70.6*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*41 %*	*8.98-84*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*15 %*	*1.11-63.5*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*65 %*	*8.46-114*		*EPA 3510C*	*B432226*	*08/08/24 14:23*	*EPA 625.1*	*ME*	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
Received:
07/31/24 12:43

Additional Notes:

This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2407577-01**

Sample Matrix: Liquid **Date/Time Collected: 07/31/24 10:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B432225	08/08/24 14:23	ASTM D7065	MF	
Surrogate: 2,4,6-Tribromophenol	*45 %*		*5-89.9*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Surrogate: 2-Fluorobiphenyl	*40 %*		*27-111*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Surrogate: Phenol-d5	*13 %*		*5-64.3*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Surrogate: 2-Fluorophenol	*18 %*		*5-64.3*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Surrogate: Terphenyl-d14	*61 %*		*5-114*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Surrogate: Nitrobenzene-d5	*34 %*		*22-117*	*ASTM D7065-11*	*B432225*	*08/08/24 14:23*	*ASTM D7065*	*MF*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B431310	08/07/24 15:38	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*78 %*		*15.3-112*	*EPA 608.3*	*B431310*	*08/07/24 15:38*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*68 %*		*10.2-92.4*	*EPA 608.3*	*B431310*	*08/07/24 15:38*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
1,3-Dichloropropylene [1,3-Dichloropro	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Acrolein *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Benzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Bromoform *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	

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Received:
07/31/24 12:43

Additional Notes:
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Report No. 2407577

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2407577-01**

Sample Matrix: Liquid | **Date/Time Collected: 07/31/24 10:15**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Chloroethane *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Chloroform *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Toluene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*100 %*		*80-106*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*105 %*		*83-118*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*101 %*		*91-109*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Bromoform *	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Chloroform *	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 624.1	B433202	08/09/24 23:21	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	08/09/24 23:21	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*100 %*		*65.7-120*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*105 %*		*81.2-126*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*101 %*		*87.4-109*	*EPA 624.1*	*B433202*	*08/09/24 23:21*	*EPA 624.1*	*ME*	

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07/31/24 12:43

Additional Notes:
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Report No. 2407577

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B431318 - SM2540D										
Blank (B431318-BLK1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:45				
Total Suspended Solids	<2.50	2.50	mg/L							
LCS (B431318-BS1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:46				
Total Suspended Solids	10.6	2.50	mg/L	10.0		106	80-120			
LCS Dup (B431318-BSD1)				Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:47				
Total Suspended Solids	10.0	2.50	mg/L	10.0		100	80-120	6	20	
Duplicate (B431318-DUP1)		**Source: 2407595-01**		Prepared: 08/01/24 10:30		Analyzed: 08/01/24 12:58				
Total Suspended Solids	18.8	6.25	mg/L		17.0			10	20	
Batch B431378 - EPA 360.1										
Duplicate (B431378-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:02				
Dissolved Oxygen	11.1	2.00	mg/L		11.1			0	20	H, UA
Batch B431381 - SM4500NH3B										
Blank (B431381-BLK1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:00				
Ammonia-Nitrogen	<1.00	1.00	mg/L							
LCS (B431381-BS1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:01				
Ammonia-Nitrogen	16.8	1.00	mg/L	20.0		84	80-120			
LCS Dup (B431381-BSD1)				Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:02				
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	18	20	
Duplicate (B431381-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:03				
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20	
Matrix Spike (B431381-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:04				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120			
Matrix Spike Dup (B431381-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 11:00		Analyzed: 08/01/24 17:08				
Ammonia-Nitrogen	19.1	1.00	mg/L	20.0	1.12	90	80-120	0	200	
Batch B432168 - SM4500HB										
LCS (B432168-BS1)				Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:30				
pH	7.10	0.01	pH Units	7.00		101	97.5-102.5			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432168 - SM4500HB										
LCS (B432168-BS1)				Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:30				
pH measured @Temperature >>	20.6	0.100	°F				0-200			
Duplicate (B432168-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 08:30		Analyzed: 08/01/24 08:54				
pH	9.25	0.01	pH Units		9.23			0.2	20	H
pH measured @Temperature >>	20.1	0.100	°F		68.2			109	30	H S
Batch B432180 - EPA 365.3										
Blank (B432180-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B432180-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.483	0.05	mg/L	0.500		97	80-120			
LCS Dup (B432180-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:30				
Total Phosphorous	0.459	0.05	mg/L	0.500		92	80-120	5	20	
Duplicate (B432180-DUP1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.503	0.05	mg/L		0.543			8	20	
Matrix Spike (B432180-MS1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.543	39	80-120			M
Matrix Spike Dup (B432180-MSD1)		**Source: 2407429-01**		Prepared: 08/01/24 16:00		Analyzed: 08/02/24 12:55				
Total Phosphorous	0.767	0.05	mg/L	0.500	0.543	45	80-120	4	20	M
Batch B432188 - SM4500-SO3(B)										
Blank (B432188-BLK1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:30				
Sulfite	<1000	1000	ug/L							
LCS (B432188-BS1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:32				
Sulfite	9000	1000	ug/L	10000		90	80-120			
LCS Dup (B432188-BSD1)				Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:34				
Sulfite	10000	1000	ug/L	10000		100	80-120	11	20	
Duplicate (B432188-DUP1)		**Source: 2407429-01**		Prepared: 08/05/24 15:00		Analyzed: 08/05/24 16:40				
Sulfite	<1000	1000	ug/L		<1000				20	
Batch B432189 - EPA 351.3										

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Report No. 2407577

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B432189-BLK1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B432189-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120		
LCS Dup (B432189-BSD1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	20.2	1.00	mg/L	20.0		101	80-120	0	20
Duplicate (B432189-DUP1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	2.80	1.00	mg/L		3.36			18	20
Matrix Spike (B432189-MS1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	21.3	1.00	mg/L	20.0	3.36	90	80-120		
Matrix Spike Dup (B432189-MSD1)		**Source: 2407428-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 14:00			
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	3.36	104	80-120	12	20
Batch B432236 - SM5210B									
Blank (B432236-BLK1)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	<2.00	2.00	mg/L						
LCS (B432236-BS1)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	200	2.00	mg/L	200		100	80-120		
LCS (B432236-BS2)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	210	2.00	mg/L	200		105	80-120		
LCS (B432236-BS3)				Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	205	2.00	mg/L	200		102	80-120		
Duplicate (B432236-DUP1)		**Source: 2408010-10**		Prepared: 08/01/24 09:00		Analyzed: 08/06/24 16:57			
BOD-5	4360	2.00	mg/L		4030			8	20
Batch B432240 - SM5210B									
Blank (B432240-BLK1)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:00			
CBOD	<2.00	2.00	mg/L						
LCS (B432240-BS1)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:01			
CBOD	200	2.00	mg/L	200		100	80-120		
LCS (B432240-BS2)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:02			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432240 - SM5210B									
CBOD	210	2.00	mg/L	200		105	80-120		
LCS (B432240-BS3)				Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:03			
CBOD	205	2.00	mg/L	200		102	80-120		
Duplicate (B432240-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 13:00		Analyzed: 08/06/24 13:04			
CBOD	4.66	2.00	mg/L		3.88			18	20
Batch B432247 - SM2540C									
Blank (B432247-BLK1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:30			
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B432247-BS1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:31			
Total Dissolved Solids	115	2.50	mg/L	100		115	80-120		
LCS Dup (B432247-BSD1)				Prepared: 08/02/24 08:30		Analyzed: 08/06/24 08:32			
Total Dissolved Solids	110	2.50	mg/L	100		110	80-120	4	20
Duplicate (B432247-DUP1)		**Source: 2407550-07**		Prepared: 08/02/24 08:30		Analyzed: 08/06/24 09:48			
Total Dissolved Solids	19500	2.50	mg/L		20000			2	20
Batch B432277 - H8000									
Blank (B432277-BLK1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:20			
COD	<5.00	5.00	mg/L						
LCS (B432277-BS1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:21			
COD	46.8	5.00	mg/L	50.0		94	80-120		
LCS Dup (B432277-BSD1)				Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:22			
COD	44.7	5.00	mg/L	50.0		89	80-120	5	20
Duplicate (B432277-DUP1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:23			
COD	60.9	5.00	mg/L		62.7			3	20
Matrix Spike (B432277-MS1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:24			
COD	104	5.00	mg/L	50.0	62.7	82	80-120		
Matrix Spike Dup (B432277-MSD1)		**Source: 2407576-01**		Prepared: 08/07/24 15:00		Analyzed: 08/07/24 18:26			
COD	105	5.00	mg/L	50.0	62.7	84	80-120	1	20

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Report No. 2407577

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432297 - SM4500ClG										
Blank (B432297-BLK1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432297-BS1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.235	0.01	mg/L	0.250		94	80-120			
LCS Dup (B432297-BSD1)				Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.240	0.01	mg/L	0.250		96	80-120	2	20	
Duplicate (B432297-DUP1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.0210	0.01	mg/L		0.0200			5	20	
Matrix Spike (B432297-MS1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:15				
Residual Chlorine	0.194	0.01	mg/L	0.250	0.0200	70	80-120			M
Matrix Spike Dup (B432297-MSD1)		**Source: 2407576-01**		Prepared: 08/01/24 09:00		Analyzed: 08/01/24 09:10				
Residual Chlorine	0.180	0.01	mg/L	0.250	0.0200	64	80-120	7	20	M
Batch B432359 - EPA 1664A										
Blank (B432359-BLK1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:00				
Oil & Grease (HEM)	<4.75	4.75	mg/L							
LCS (B432359-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:01				
Oil & Grease (HEM)	32.8	4.75	mg/L	40.0		82	78-114			
LCS Dup (B432359-BSD1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:02				
Oil & Grease (HEM)	32.5	4.75	mg/L	40.0		81	78-114	0.9	18	
Matrix Spike (B432359-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:03				
Oil & Grease (HEM)	37.0	4.75	mg/L	40.0	<4.75	92	78-114			
Matrix Spike (B432359-MS2)		**Source: 2407577-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:04				
Oil & Grease (HEM)	32.8	4.75	mg/L	40.0	<4.75	82	78-114			
Batch B432360 - SM 5310C										
Blank (B432360-BLK1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 13:39				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B432360-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:06				

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432360 - SM 5310C									
LCS (B432360-BS1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:06			
Total Organic Carbon	4.09	0.10	mg/L	5.00		82	80-120		
LCS Dup (B432360-BSD1)				Prepared: 08/09/24 11:00		Analyzed: 08/09/24 14:32			
Total Organic Carbon	4.33	0.10	mg/L	5.00		87	80-120	6	20
Duplicate (B432360-DUP1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:19			
Total Organic Carbon	<0.10	0.10	mg/L		<0.10				20
Matrix Spike (B432360-MS1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 16:46			
Total Organic Carbon	4.52	0.10	mg/L	5.00	<0.10	90	70-130		
Matrix Spike Dup (B432360-MSD1)		**Source: 2408064-01**		Prepared: 08/09/24 11:00		Analyzed: 08/09/24 17:08			
Total Organic Carbon	4.08	0.10	mg/L	5.00	<0.10	82	70-130	10	20
Batch B433183 - I-1230-85									
Blank (B433183-BLK1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	<3	3	ug/L						
LCS (B433183-BS1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	401	3	ug/L	400		100	90-110		
LCS Dup (B433183-BSD1)				Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:00			
Hexavalent Chromium	412	3	ug/L	400		103	90-110	3	20
Duplicate (B433183-DUP1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	<3	3	ug/L		<3				20
Matrix Spike (B433183-MS1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	379	3	ug/L	400	<3	95	80-120		
Matrix Spike Dup (B433183-MSD1)		**Source: 2407577-01**		Prepared: 08/02/24 09:00		Analyzed: 08/02/24 09:10			
Hexavalent Chromium	387	3	ug/L	400	<3	97	80-120	2	20
Batch B433186 - EPA 376.2									
Blank (B433186-BLK1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	<100	100	ug/L						
LCS (B433186-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433186 - EPA 376.2									
LCS (B433186-BS1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	94.0	100	ug/L	100		94	80-120		
LCS Dup (B433186-BSD1)				Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:30			
Sulfide	92.0	100	ug/L	100		92	80-120	2	20
Duplicate (B433186-DUP1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B433186-MS1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	95.0	100	ug/L	100	<100	95	70-130		
Matrix Spike Dup (B433186-MSD1)		**Source: 2407576-01**		Prepared: 08/05/24 09:00		Analyzed: 08/05/24 09:45			
Sulfide	96.0	100	ug/L	100	<100	96	70-130	1	30
Batch B433198 - SM2320B									
Blank (B433198-BLK1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:00			
Total Alkalinity	<20.0	20.0	mg/L as CaCO3						
LCS (B433198-BS1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:10			
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120		
LCS Dup (B433198-BSD1)				Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:15			
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120	4	20
Duplicate (B433198-DUP1)		**Source: 2407576-01**		Prepared: 08/12/24 10:00		Analyzed: 08/12/24 10:45			
Total Alkalinity	396	20.0	mg/L as CaCO3		388			2	20
Batch B433222 - SM5540 C									
Blank (B433222-BLK1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B433222-BS1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	257	200	ug/L	250		103	80-120		
LCS Dup (B433222-BSD1)				Prepared: 08/01/24 16:00		Analyzed: 08/01/24 16:30			
MBAS, calculated as LAS, mol wt (288)	268	200	ug/L	250		107	80-120	4	20

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433222 - SM5540 C									
Duplicate (B433222-DUP1)		**Source: 2407577-01**		Prepared: 08/01/24 16:00 Analyzed: 08/01/24 16:30					
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432319 - EPA 300.0									
Blank (B432319-BLK1)				Prepared: 07/31/24 09:00 Analyzed: 07/31/24 09:43					
Fluoride	<500	500	ug/L						
Chloride	<0.100	0.100	mg/L						
Nitrite as N	<100	100	ug/L						
Bromide	<400	400	ug/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B432319-BS1)				Prepared: 07/31/24 09:00 Analyzed: 07/31/24 10:01					
Fluoride	988	500	ug/L	1000		99	90-110		
Chloride	5.15	0.100	mg/L	5.00		103	90-110		
Nitrite as N	4810	100	ug/L	5000		96	90-110		
Bromide	4700	400	ug/L	5000		94	90-110		
Nitrate as N	5.26	0.100	mg/L	5.00		105	90-110		
Sulfate	5.15	0.10	mg/L	5.00		103	90-110		
LCS Dup (B432319-BSD1)				Prepared: 07/31/24 09:00 Analyzed: 07/31/24 10:19					
Fluoride	994	500	ug/L	1000		99	90-110	0.6	20
Chloride	5.12	0.100	mg/L	5.00		102	90-110	0.5	20
Nitrite as N	4810	100	ug/L	5000		96	90-110	0.1	20
Bromide	4680	400	ug/L	5000		94	90-110	0.4	20
Nitrate as N	5.25	0.100	mg/L	5.00		105	90-110	0.07	20
Sulfate	5.27	0.10	mg/L	5.00		105	90-110	2	20
Duplicate (B432319-DUP1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00 Analyzed: 07/31/24 17:39					
Fluoride	<500	500	ug/L		<500				20
Chloride	<0.100	0.100	mg/L		5040				20

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432319 - EPA 300.0										
Duplicate (B432319-DUP1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 17:39				
Nitrite as N	3750000	100	ug/L		3730000			0.6	20	
Bromide	<400	400	ug/L		240				20	
Nitrate as N	2.50	0.100	mg/L		2.54			1	20	
Sulfate	6.31	0.10	mg/L		6.45			2	20	
Duplicate (B432319-DUP2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00		Analyzed: 07/31/24 13:35				
Fluoride	168	500	ug/L		176			5	20	
Chloride	6.50	0.100	mg/L		6.53			0.4	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	<400	400	ug/L		<400				20	
Nitrate as N	1.47	0.100	mg/L		1.47			0.4	20	
Sulfate	6.40	0.10	mg/L		6.43			0.5	20	
Matrix Spike (B432319-MS1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 17:57				
Fluoride	920	500	ug/L	1000	<500	92	80-120			
Chloride	1050	0.100	mg/L	5.00	5040	NR	80-120			M
Nitrite as N	3540000	100	ug/L	5000	3730000	NR	80-120			M
Bromide	5410	400	ug/L	5000	240	103	80-120			
Nitrate as N	7.09	0.100	mg/L	5.00	2.54	91	80-120			
Sulfate	12.2	0.10	mg/L	5.00	6.45	115	80-120			
Matrix Spike (B432319-MS2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00		Analyzed: 07/31/24 13:53				
Fluoride	1180	500	ug/L	1000	176	101	80-120			
Chloride	11.7	0.100	mg/L	5.00	6.53	103	80-120			
Nitrite as N	4820	100	ug/L	5000	<100	96	80-120			
Bromide	4730	400	ug/L	5000	<400	95	80-120			
Nitrate as N	6.78	0.100	mg/L	5.00	1.47	106	80-120			
Sulfate	11.9	0.10	mg/L	5.00	6.43	110	80-120			
Matrix Spike Dup (B432319-MSD1)		**Source: 2407549-01**		Prepared: 07/31/24 16:00		Analyzed: 07/31/24 18:14				
Fluoride	912	500	ug/L	1000	<500	91	80-120	0.8	20	
Chloride	1050	0.100	mg/L	5.00	5040	NR	80-120	0.3	20	M
Nitrite as N	3560000	100	ug/L	5000	3730000	NR	80-120	0.6	20	M
Bromide	5330	400	ug/L	5000	240	102	80-120	2	20	
Nitrate as N	7.06	0.100	mg/L	5.00	2.54	91	80-120	0.3	20	
Sulfate	12.3	0.10	mg/L	5.00	6.45	117	80-120	0.5	20	

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432319 - EPA 300.0									
Matrix Spike Dup (B432319-MSD2)		**Source: 2407547-01**		Prepared: 07/31/24 09:00 Analyzed: 07/31/24 14:11					
Fluoride	1190	500	ug/L	1000	176	101	80-120	0.3	20
Chloride	11.7	0.100	mg/L	5.00	6.53	104	80-120	0.3	20
Nitrite as N	4840	100	ug/L	5000	<100	97	80-120	0.3	20
Bromide	4720	400	ug/L	5000	<400	94	80-120	0.07	20
Nitrate as N	6.78	0.100	mg/L	5.00	1.47	106	80-120	0.03	20
Sulfate	12.0	0.10	mg/L	5.00	6.43	112	80-120	0.5	20

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432329 - EPA 200.8									
Blank (B432329-BLK1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:25					
Aluminum	<2	2	ug/L						
Antimony	<5	5	ug/L						
Barium	<3	3	ug/L						
Beryllium	<0.5	0.5	ug/L						
Boron	<20	20	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Cobalt	<0.3	0.3	ug/L						
Copper	<2	2	ug/L						
Iron	<7	7	ug/L						
Lead	<0.5	0.5	ug/L						
Magnesium	<20	20	ug/L						
Manganese	<0.5	0.5	ug/L						
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432329 - EPA 200.8									
LCS (B432329-BS1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:32					
Aluminum	982	2	ug/L	1000		98	85-115		
Antimony	105	5	ug/L	100		105	85-115		
Barium	99.7	3	ug/L	100		100	85-115		
Beryllium	101	0.5	ug/L	100		101	85-115		
Boron	103	20	ug/L	100		103	85-115		
Cadmium	101	1	ug/L	100		101	85-115		
Chromium	100	3	ug/L	100		100	85-115		
Cobalt	102	0.3	ug/L	100		102	85-115		
Copper	98.6	2	ug/L	100		99	85-115		
Iron	951	7	ug/L	1000		95	85-115		
Lead	97.1	0.5	ug/L	100		97	85-115		
Magnesium	1070	20	ug/L	1000		107	85-115		
Manganese	95.0	0.5	ug/L	100		95	85-115		
Molybdenum	99.9	1	ug/L	100		100	85-115		
Nickel	101	2	ug/L	100		101	85-115		
Silver	89.9	0.5	ug/L	100		90	85-115		
Thallium	96.0	0.5	ug/L	100		96	85-115		
Tin	102	5	ug/L	100		102	85-115		
Titanium	100	30	ug/L	100		100	85-115		
Zinc	99.8	5	ug/L	100		100	85-115		
LCS Dup (B432329-BSD1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:35					
Aluminum	932	2	ug/L	1000		93	85-115	5	20
Antimony	100	5	ug/L	100		100	85-115	5	20
Barium	95.6	3	ug/L	100		96	85-115	4	20
Beryllium	91.7	0.5	ug/L	100		92	85-115	9	20
Boron	97.1	20	ug/L	100		97	85-115	6	20
Cadmium	96.8	1	ug/L	100		97	85-115	4	20
Chromium	95.2	3	ug/L	100		95	85-115	5	20
Cobalt	97.4	0.3	ug/L	100		97	85-115	5	20
Copper	94.8	2	ug/L	100		95	85-115	4	20
Iron	905	7	ug/L	1000		91	85-115	5	20
Lead	95.0	0.5	ug/L	100		95	85-115	2	20
Magnesium	1010	20	ug/L	1000		101	85-115	6	20
Manganese	90.6	0.5	ug/L	100		91	85-115	5	20
Molybdenum	96.0	1	ug/L	100		96	85-115	4	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432329 - EPA 200.8										
LCS Dup (B432329-BSD1)				Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:35						
Nickel	96.4	2	ug/L	100		96	85-115	5	20	
Silver	85.7	0.5	ug/L	100		86	85-115	5	20	
Thallium	94.3	0.5	ug/L	100		94	85-115	2	20	
Tin	96.0	5	ug/L	100		96	85-115	6	20	
Titanium	95.9	30	ug/L	100		96	85-115	5	20	
Zinc	95.6	5	ug/L	100		96	85-115	4	20	
Duplicate (B432329-DUP1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:42						
Aluminum	14.3	2	ug/L		14.3			0.07	20	
Antimony	<5	5	ug/L		<5				20	
Barium	53.2	3	ug/L		50.8			5	20	
Beryllium	0.0466	0.5	ug/L		0.0283			49	20	S
Boron	1090	20	ug/L		1070			1	20	
Cadmium	0.0512	1	ug/L		0.0466			9	20	
Chromium	<3	3	ug/L		<3				20	
Cobalt	0.400	0.3	ug/L		0.381			5	20	
Copper	2.17	2	ug/L		2.43			11	20	
Iron	155	7	ug/L		151			2	20	
Lead	0.179	0.5	ug/L		0.131			31	20	S
Magnesium	54400	20	ug/L		52000			5	20	
Manganese	11.9	0.5	ug/L		8.46			33	20	S
Molybdenum	4.16	1	ug/L		4.24			2	20	
Nickel	5.39	2	ug/L		5.33			1	20	
Silver	0.0653	0.5	ug/L		0.0887			30	20	S
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	<5	5	ug/L		<5				20	
Titanium	2.37	30	ug/L		1.96			19	20	
Zinc	12.7	5	ug/L		12.5			2	20	
Matrix Spike (B432329-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50 Analyzed: 08/14/24 12:46						
Aluminum	1020	2	ug/L	1000	14.3	101	75-125			
Antimony	112	5	ug/L	100	<5	112	75-125			
Barium	149	3	ug/L	100	50.8	98	75-125			
Beryllium	97.9	0.5	ug/L	100	0.0283	98	75-125			
Boron	1130	20	ug/L	100	1070	56	75-125			M
Cadmium	102	1	ug/L	100	0.0466	102	75-125			

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

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Additional Notes:
This supersedes the last report (2407577_1 1-SATL1 08 14 24 1711) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2407577

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432329 - EPA 200.8										
Matrix Spike (B432329-MS1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50		Analyzed: 08/14/24 12:46				
Chromium	95.9	3	ug/L	100	<3	96	75-125			
Cobalt	95.1	0.3	ug/L	100	0.381	95	75-125			
Copper	91.4	2	ug/L	100	2.43	89	75-125			
Iron	1030	7	ug/L	1000	151	88	75-125			
Lead	103	0.5	ug/L	100	0.131	103	75-125			
Magnesium	51400	20	ug/L	1000	52000	NR	75-125			M
Manganese	102	0.5	ug/L	100	8.46	94	75-125			
Molybdenum	109	1	ug/L	100	4.24	104	75-125			
Nickel	95.3	2	ug/L	100	5.33	90	75-125			
Silver	96.3	0.5	ug/L	100	0.0887	96	75-125			
Thallium	105	0.5	ug/L	100	<0.5	105	75-125			
Tin	103	5	ug/L	100	<5	103	75-125			
Titanium	101	30	ug/L	100	1.96	99	75-125			
Zinc	109	5	ug/L	100	12.5	97	75-125			
Matrix Spike Dup (B432329-MSD1)		**Source: 2407576-01**		Prepared: 08/09/24 09:50		Analyzed: 08/14/24 12:50				
Aluminum	1100	2	ug/L	1000	14.3	108	75-125	7	20	
Antimony	118	5	ug/L	100	<5	118	75-125	5	20	
Barium	159	3	ug/L	100	50.8	108	75-125	7	20	
Beryllium	102	0.5	ug/L	100	0.0283	102	75-125	4	20	
Boron	1210	20	ug/L	100	1070	134	75-125	7	20	M
Cadmium	106	1	ug/L	100	0.0466	106	75-125	4	20	
Chromium	99.8	3	ug/L	100	<3	100	75-125	4	20	
Cobalt	98.2	0.3	ug/L	100	0.381	98	75-125	3	20	
Copper	94.2	2	ug/L	100	2.43	92	75-125	3	20	
Iron	1080	7	ug/L	1000	151	93	75-125	5	20	
Lead	107	0.5	ug/L	100	0.131	107	75-125	4	20	
Magnesium	55800	20	ug/L	1000	52000	385	75-125	8	20	M
Manganese	107	0.5	ug/L	100	8.46	99	75-125	5	20	
Molybdenum	113	1	ug/L	100	4.24	109	75-125	4	20	
Nickel	99.3	2	ug/L	100	5.33	94	75-125	4	20	
Silver	99.9	0.5	ug/L	100	0.0887	100	75-125	4	20	
Thallium	110	0.5	ug/L	100	<0.5	110	75-125	5	20	
Tin	108	5	ug/L	100	<5	108	75-125	5	20	
Titanium	106	30	ug/L	100	1.96	104	75-125	5	20	
Zinc	113	5	ug/L	100	12.5	101	75-125	4	20	

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Report No. 2407577

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Blank (B432226-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*129*		*ug/L*	*200*		*65*	*18.3-110*			

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Report No. 2407577

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Blank (B432226-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57						
Surrogate: 2-Fluorobiphenyl	*45.4*		*ug/L*	*100*		*45*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*76.1*		*ug/L*	*200*		*38*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*53.4*		*ug/L*	*100*		*53*	*8.98-84*			
Surrogate: Phenol-d5	*55.4*		*ug/L*	*200*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*74.9*		*ug/L*	*100*		*75*	*8.46-114*			
LCS (B432226-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19						
1,2,4,5-Tetrachlorobenzene	48.1	20	ug/L	80.0		60	0.449-117			
2,4,5-Trichlorophenol	57.4	50	ug/L	80.0		72	20-108			
2,4,6-Trichlorophenol	57.2	10	ug/L	80.0		71	37-144			
2,4-Dichlorophenol	47.4	10	ug/L	80.0		59	39-135			
2,4-Dimethylphenol	56.9	10	ug/L	80.0		71	32-119			
2,4-Dinitrophenol	101	50	ug/L	80.0		127	5-191			CH
2-Chlorophenol	44.3	10	ug/L	80.0		55	23-134			
o-Cresol	42.0	10	ug/L	80.0		52	8-87			
2-Nitrophenol	69.0	20	ug/L	80.0		86	29-182			CH
3,3´-Dichlorobenzidine	68.9	5	ug/L	80.0		86	4.34-262			
m-Cresol & p-Cresol	41.1	10	ug/L	80.0		51	6-85			
4,6-Dinitro-o-cresol	107	50	ug/L	80.0		133	5-181			CH
p-Chloro-m-cresol	52.6	10	ug/L	80.0		66	22-147			
4-Nitrophenol	39.0	50	ug/L	80.0		49	5-132			
Anthracene	61.9	10	ug/L	80.0		77	27-133			
Benz(a)anthracene	61.7	5	ug/L	80.0		77	33-143			
Benzidine	78.1	50	ug/L	80.0		98	5-73			L
Benzo(a)pyrene	69.9	5	ug/L	80.0		87	17-163			
Bis(2-Chloroethyl)ether	37.1	10	ug/L	80.0		46	12-158			CL
Bis(2-Ethylhexyl)phthalate	61.5	10	ug/L	80.0		77	8-158			
Chrysene	56.3	5	ug/L	80.0		70	17-168			
Di-n-butylphthalate	59.9	10	ug/L	80.0		75	1-118			
Hexachlorobenzene	62.5	5	ug/L	80.0		78	5-152			
Hexachlorobutadiene	36.8	10	ug/L	80.0		46	24-116			
Hexachlorocyclopentadiene	37.3	10	ug/L	80.0		47	12-69			
Hexachloroethane	31.4	20	ug/L	80.0		39	40-113			L
Nitrobenzene	48.9	10	ug/L	80.0		61	35-180			
N-Nitrosodiethylamine	42.8	20	ug/L	80.0		54	-2.55-178			
N-Nitrosodi-n-butylamine	41.6	20	ug/L	80.0		52	-4.28-193			

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Additional Notes:
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Report No. 2407577

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
LCS (B432226-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19						
Pentachlorobenzene	56.7	20	ug/L	80.0		71	-1.08-131			
Pentachlorophenol	70.8	5	ug/L	80.0		88	14-176			
Phenanthrene	56.0	10	ug/L	80.0		70	54-120			
Phenol	24.4	10	ug/L	80.0		30	5-112			
Pyridine	28.6	20	ug/L	80.0		36	5-73			
Surrogate: 2,4,6-Tribromophenol	*175*		*ug/L*	*200*		*87*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*60.9*		*ug/L*	*100*		*61*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*74.1*		*ug/L*	*200*		*37*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.0*		*ug/L*	*100*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*53.6*		*ug/L*	*200*		*27*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*88.7*		*ug/L*	*100*		*89*	*8.46-114*			
LCS Dup (B432226-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40						
1,2,4,5-Tetrachlorobenzene	50.0	20	ug/L	80.0		63	0.449-117	4	25.7	
2,4,5-Trichlorophenol	56.1	50	ug/L	80.0		70	20-108	2	64	
2,4,6-Trichlorophenol	55.6	10	ug/L	80.0		70	37-144	3	67	
2,4-Dichlorophenol	48.7	10	ug/L	80.0		61	39-135	3	70	
2,4-Dimethylphenol	56.8	10	ug/L	80.0		71	32-119	0.1	72	
2,4-Dinitrophenol	100	50	ug/L	80.0		125	5-191	1	142	CH
2-Chlorophenol	44.3	10	ug/L	80.0		55	23-134	0.2	67	
o-Cresol	42.1	10	ug/L	80.0		53	8-87	0.3	59	
2-Nitrophenol	72.0	20	ug/L	80.0		90	29-182	4	66	CH
3,3´-Dichlorobenzidine	64.1	5	ug/L	80.0		80	4.34-262	7	50	
m-Cresol & p-Cresol	42.8	10	ug/L	80.0		54	6-85	4	63	
4,6-Dinitro-o-cresol	109	50	ug/L	80.0		136	5-181	2	88	CH
p-Chloro-m-cresol	49.4	10	ug/L	80.0		62	22-147	6	66	
4-Nitrophenol	37.1	50	ug/L	80.0		46	5-132	5	84	
Anthracene	56.9	10	ug/L	80.0		71	27-133	8	64	
Benz(a)anthracene	58.0	5	ug/L	80.0		72	33-143	6	65	
Benzidine	63.0	50	ug/L	80.0		79	5-73	21	87	L
Benzo(a)pyrene	64.2	5	ug/L	80.0		80	17-163	9	69	
Bis(2-Chloroethyl)ether	37.3	10	ug/L	80.0		47	12-158	0.4	40	CL
Bis(2-Ethylhexyl)phthalate	59.1	10	ug/L	80.0		74	8-158	4	72	
Chrysene	51.6	5	ug/L	80.0		64	17-168	9	65	
Di-n-butylphthalate	55.6	10	ug/L	80.0		69	1-118	7	68	
Hexachlorobenzene	56.5	5	ug/L	80.0		71	5-152	10	69	

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Additional Notes:
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Report No. 2407577

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
LCS Dup (B432226-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40						
Hexachlorobutadiene	36.5	10	ug/L	80.0		46	24-116	0.9	49	
Hexachlorocyclopentadiene	38.5	10	ug/L	80.0		48	12-69	3	65	
Hexachloroethane	33.1	20	ug/L	80.0		41	40-113	5	42	
Nitrobenzene	49.3	10	ug/L	80.0		62	35-180	0.9	41	
N-Nitrosodiethylamine	44.2	20	ug/L	80.0		55	-2.55-178	3	29	
N-Nitrosodi-n-butylamine	39.7	20	ug/L	80.0		50	-4.28-193	5	37.8	
Pentachlorobenzene	54.2	20	ug/L	80.0		68	-1.08-131	4	25.5	
Pentachlorophenol	67.4	5	ug/L	80.0		84	14-176	5	50	
Phenanthrene	52.0	10	ug/L	80.0		65	54-120	7	66	
Phenol	22.9	10	ug/L	80.0		29	5-112	7	69	
Pyridine	28.5	20	ug/L	80.0		36	5-73	0.6	36	
Surrogate: 2,4,6-Tribromophenol	*160*		*ug/L*	*200*		*80*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*58.4*		*ug/L*	*100*		*58*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*77.5*		*ug/L*	*200*		*39*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*61.8*		*ug/L*	*100*		*62*	*8.98-84*			
Surrogate: Phenol-d5	*56.4*		*ug/L*	*200*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*80.3*		*ug/L*	*100*		*80*	*8.46-114*			
Matrix Spike (B432226-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44						
1,2,4,5-Tetrachlorobenzene	106	20	ug/L	160	<20	66	26.5-68.5			
2,4,5-Trichlorophenol	110	50	ug/L	160	<50	69	44.1-94.9			
2,4,6-Trichlorophenol	108	10	ug/L	160	<10	67	42.8-89.7			
2,4-Dichlorophenol	96.4	10	ug/L	160	<10	60	42.7-83.2			
2,4-Dimethylphenol	108	10	ug/L	160	<10	68	35.5-84.8			
2,4-Dinitrophenol	195	50	ug/L	160	<50	122	12.9-135			CH
2-Chlorophenol	86.1	10	ug/L	160	<10	54	42.6-73.1			
o-Cresol	79.8	10	ug/L	160	<10	50	45.4-61.4			
2-Nitrophenol	138	20	ug/L	160	<20	86	45.6-74.3			CH M
3,3´-Dichlorobenzidine	114	5	ug/L	160	<5	71	25-203			
m-Cresol & p-Cresol	78.2	10	ug/L	160	<10	49	3-75			
4,6-Dinitro-o-cresol	206	50	ug/L	160	<50	129	26.6-112			CH M
p-Chloro-m-cresol	99.6	10	ug/L	160	<10	62	32.5-89.3			
4-Nitrophenol	74.1	50	ug/L	160	<50	46	8-58			
Anthracene	108	10	ug/L	160	<10	68	50.1-92.2			
Benz(a)anthracene	113	5	ug/L	160	<5	71	36.3-111			
Benzidine	21.6	50	ug/L	160	<50	13	15-150			M

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432226 - EPA 3510C										
Matrix Spike (B432226-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44						
Benzo(a)pyrene	126	5	ug/L	160	<5	79	27.5-124			
Bis(2-Chloroethyl)ether	69.7	10	ug/L	160	<10	44	38.3-70.8			CL
Bis(2-Ethylhexyl)phthalate	116	10	ug/L	160	<10	72	13.2-168			
Chrysene	115	5	ug/L	160	<5	72	40.6-101			
Di-n-butylphthalate	109	10	ug/L	160	<10	68	27.4-123			
Hexachlorobenzene	112	5	ug/L	160	<5	70	49.6-94.3			
Hexachlorobutadiene	79.8	10	ug/L	160	<10	50	44-74.7			
Hexachlorocyclopentadiene	78.7	10	ug/L	160	<10	49	47.3-73			
Hexachloroethane	67.5	20	ug/L	160	<20	42	37.1-86.8			
Nitrobenzene	96.6	10	ug/L	160	<10	60	42.3-89.2			
N-Nitrosodiethylamine	86.3	20	ug/L	160	<20	54	37.4-148			
N-Nitrosodi-n-butylamine	81.2	20	ug/L	160	<20	51	39.8-163			
Pentachlorobenzene	109	20	ug/L	160	<20	68	31.6-77.8			
Pentachlorophenol	130	5	ug/L	160	<5	81	31-117			
Phenanthrene	102	10	ug/L	160	<10	63	48.4-95.5			
Phenol	45.4	10	ug/L	160	<10	28	6-39			
Pyridine	45.1	20	ug/L	160	<20	28	4-58			
Surrogate: 2,4,6-Tribromophenol	*309*		*ug/L*	*400*		*77*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*113*		*ug/L*	*200*		*57*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*151*		*ug/L*	*400*		*38*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*122*		*ug/L*	*200*		*61*	*8.98-84*			
Surrogate: Phenol-d5	*112*		*ug/L*	*400*		*28*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*157*		*ug/L*	*200*		*78*	*8.46-114*			

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432225 - ASTM D7065-11									
Blank (B432225-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*126*		*ug/L*	*200*		*63*	*5-89.9*		
Surrogate: Phenol-d5	*48.3*		*ug/L*	*200*		*24*	*5-64.3*		

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Report No. 2407577

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432225 - ASTM D7065-11									
Blank (B432225-BLK1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 12:57					
Surrogate: 2-Fluorobiphenyl	*44.8*		*ug/L*	*100*		*45*	*27-111*		
Surrogate: 2-Fluorophenol	*63.9*		*ug/L*	*200*		*32*	*5-64.3*		
Surrogate: Terphenyl-d14	*69.6*		*ug/L*	*100*		*70*	*5-114*		
Surrogate: Nitrobenzene-d5	*44.6*		*ug/L*	*100*		*45*	*22-117*		
LCS (B432225-BS1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:19					
Nonylphenol	379	333	ug/L	500		76	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*171*		*ug/L*	*200*		*85*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*60.1*		*ug/L*	*100*		*60*	*27-111*		
Surrogate: Phenol-d5	*46.7*		*ug/L*	*200*		*23*	*5-64.3*		
Surrogate: 2-Fluorophenol	*62.3*		*ug/L*	*200*		*31*	*5-64.3*		
Surrogate: Terphenyl-d14	*82.4*		*ug/L*	*100*		*82*	*5-114*		
Surrogate: Nitrobenzene-d5	*50.9*		*ug/L*	*100*		*51*	*22-117*		
LCS Dup (B432225-BSD1)				Prepared: 08/06/24 10:00 Analyzed: 08/08/24 13:40					
Nonylphenol	348	333	ug/L	500		70	32.3-103	9	21.4
Surrogate: 2,4,6-Tribromophenol	*156*		*ug/L*	*200*		*78*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*57.6*		*ug/L*	*100*		*58*	*27-111*		
Surrogate: Phenol-d5	*49.2*		*ug/L*	*200*		*25*	*5-64.3*		
Surrogate: 2-Fluorophenol	*65.1*		*ug/L*	*200*		*33*	*5-64.3*		
Surrogate: Terphenyl-d14	*74.6*		*ug/L*	*100*		*75*	*5-114*		
Surrogate: Nitrobenzene-d5	*51.5*		*ug/L*	*100*		*52*	*22-117*		
Matrix Spike (B432225-MS1)		**Source: 2407577-01**		Prepared: 08/06/24 10:00 Analyzed: 08/08/24 14:44					
Nonylphenol	673	333	ug/L	1000	<333	67	26-117		
Surrogate: 2,4,6-Tribromophenol	*301*		*ug/L*	*400*		*75*	*5-89.9*		
Surrogate: Phenol-d5	*97.9*		*ug/L*	*400*		*24*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*112*		*ug/L*	*200*		*56*	*27-111*		
Surrogate: 2-Fluorophenol	*127*		*ug/L*	*400*		*32*	*5-64.3*		
Surrogate: Terphenyl-d14	*146*		*ug/L*	*200*		*73*	*5-114*		
Surrogate: Nitrobenzene-d5	*102*		*ug/L*	*200*		*51*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Report No. 2407577

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B431310 - EPA 608.3									
Blank (B431310-BLK1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:06					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.298*		*ug/L*	*0.500*		*60*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.198*		*ug/L*	*0.500*		*40*	*10.2-92.4*		
LCS (B431310-BS1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:17					
PCB 1016	3.12	0.2	ug/L	5.00		62	13.9-125		
PCB 1260	3.60	0.2	ug/L	5.00		72	29.3-140		
Surrogate: Decachlorobiphenyl	*0.216*		*ug/L*	*0.500*		*43*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.281*		*ug/L*	*0.500*		*56*	*10.2-92.4*		
LCS Dup (B431310-BSD1)				Prepared: 08/01/24 10:54 Analyzed: 08/02/24 19:28					
PCB 1016	2.98	0.2	ug/L	5.00		60	13.9-125	4	29.5
PCB 1260	3.67	0.2	ug/L	5.00		73	29.3-140	2	23.1
Surrogate: Decachlorobiphenyl	*0.221*		*ug/L*	*0.500*		*44*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.287*		*ug/L*	*0.500*		*57*	*10.2-92.4*		
Matrix Spike (B431310-MS1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:01					
PCB 1016	2.34	0.2	ug/L	5.00	<0.2	47	23.5-116		
PCB 1260	2.79	0.2	ug/L	5.00	<0.2	56	13.3-134		
Surrogate: Decachlorobiphenyl	*0.363*		*ug/L*	*0.500*		*73*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.269*		*ug/L*	*0.500*		*54*	*10.2-92.4*		
Matrix Spike Dup (B431310-MSD1)		**Source: 2407429-01**		Prepared: 07/30/24 10:00 Analyzed: 08/02/24 20:13					
PCB 1016	2.61	0.2	ug/L	5.00	<0.2	52	23.5-116	11	52
PCB 1260	3.10	0.2	ug/L	5.00	<0.2	62	13.3-134	10	40
Surrogate: Decachlorobiphenyl	*0.389*		*ug/L*	*0.500*		*78*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.282*		*ug/L*	*0.500*		*56*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*		
Surrogate: Dibromofluoromethane	*48.3*		*ug/L*	*50.0*		*97*	*83-118*		
Surrogate: Toluene-d8	*50.5*		*ug/L*	*50.0*		*101*	*91-109*		

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Report No. 2407577

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
1,1,1-Trichloroethane	46.6	10	ug/L	50.0		93	70-130		
1,1,2,2-Tetrachloroethane	61.7	10	ug/L	50.0		123	60-140		
1,1,2-Trichloroethane	55.6	10	ug/L	50.0		111	70-130		
1,1-Dichloroethane	48.5	10	ug/L	50.0		97	70-130		
1,1-Dichloroethylene	46.8	10	ug/L	50.0		94	50-150		
1,2-Dibromoethane	56.0	10	ug/L	50.0		112	71.6-124		
o-Dichlorobenzene	55.8	10	ug/L	50.0		112	65-135		
1,2-Dichloroethane	50.9	10	ug/L	50.0		102	70-130		
1,2-Dichloropropane	56.3	10	ug/L	50.0		113	35-165		
m-Dichlorobenzene	55.2	10	ug/L	50.0		110	70-130		
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		
p-Dichlorobenzene	54.3	10	ug/L	50.0		109	65-135		
2-Chloroethyl Vinyl Ether	55.0	10	ug/L	50.0		110	1-225		
Acrolein	60.5	50	ug/L	50.0		121	60-140		
Acrylonitrile	47.4	50	ug/L	50.0		95	60-140		
Benzene	46.8	10	ug/L	50.0		94	65-135		
Dichlorobromomethane [Bromodichloromethane]	54.2	10	ug/L	50.0		108	65-135		
Bromoform	52.0	10	ug/L	50.0		104	70-130		
Methyl Bromide	44.8	50	ug/L	50.0		90	15-185		
Carbon Tetrachloride	46.0	2	ug/L	50.0		92	70-130		
Chlorobenzene	53.4	10	ug/L	50.0		107	65-135		
Chloroethane	48.6	50	ug/L	50.0		97	40-160		
Chloroform	47.5	10	ug/L	50.0		95	70-135		
Methyl Chloride	51.5	50	ug/L	50.0		103	1-205		
Dibromochloromethane [Chlorodibromomethane]	54.3	10	ug/L	50.0		109	70-135		
Ethylbenzene	54.4	10	ug/L	50.0		109	60-140		
Methyl Ethyl Ketone (2-Butanone)	49.5	50	ug/L	50.0		99	56.5-136		
Dichloromethane [Methylene Chloride]	50.4	20	ug/L	50.0		101	60-140		
Tetrachloroethylene [Tetrachloroethene]	45.5	10	ug/L	50.0		91	70-130		
Toluene	47.9	10	ug/L	50.0		96	70-130		
trans-1,2-Dichloroethylene	47.9	10	ug/L	50.0		96	70-130		
Trichloroethylene [Trichloroethene]	52.7	10	ug/L	50.0		105	65-135		
Vinyl chloride [Chloroethene]	53.1	10	ug/L	50.0		106	5-195		

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99*	*83-118*		
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98*	*91-109*		
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
1,1,1-Trichloroethane	46.5	10	ug/L	50.0		93	70-130	0.2	36
1,1,2,2-Tetrachloroethane	56.0	10	ug/L	50.0		112	60-140	10	61
1,1,2-Trichloroethane	52.4	10	ug/L	50.0		105	70-130	6	45
1,1-Dichloroethane	48.8	10	ug/L	50.0		98	70-130	0.6	40
1,1-Dichloroethylene	48.0	10	ug/L	50.0		96	50-150	3	32
1,2-Dibromoethane	51.2	10	ug/L	50.0		102	71.6-124	9	20.3
o-Dichlorobenzene	52.3	10	ug/L	50.0		105	65-135	7	57
1,2-Dichloroethane	50.3	10	ug/L	50.0		101	70-130	1	49
1,2-Dichloropropane	54.7	10	ug/L	50.0		109	35-165	3	55
m-Dichlorobenzene	53.3	10	ug/L	50.0		107	70-130	3	43
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		200
p-Dichlorobenzene	52.1	10	ug/L	50.0		104	65-135	4	57
2-Chloroethyl Vinyl Ether	50.0	10	ug/L	50.0		100	1-225	10	71
Acrolein	53.8	50	ug/L	50.0		108	60-140	12	60
Acrylonitrile	42.9	50	ug/L	50.0		86	60-140	10	60
Benzene	46.0	10	ug/L	50.0		92	65-135	2	61
Dichlorobromomethane [Bromodichloromethane]	52.3	10	ug/L	50.0		105	65-135	3	56
Bromoform	46.8	10	ug/L	50.0		94	70-130	11	42
Methyl Bromide	46.1	50	ug/L	50.0		92	15-185	3	61
Carbon Tetrachloride	46.6	2	ug/L	50.0		93	70-130	1	41
Chlorobenzene	51.3	10	ug/L	50.0		103	65-135	4	53
Chloroethane	50.2	50	ug/L	50.0		100	40-160	3	78
Chloroform	47.2	10	ug/L	50.0		94	70-135	0.8	54
Methyl Chloride	55.2	50	ug/L	50.0		110	1-205	7	60
Dibromochloromethane [Chlorodibromomethane]	51.2	10	ug/L	50.0		102	70-135	6	50
Ethylbenzene	51.6	10	ug/L	50.0		103	60-140	5	63
Methyl Ethyl Ketone (2-Butanone)	42.7	50	ug/L	50.0		85	56.5-136	15	30.7
Dichloromethane [Methylene Chloride]	50.3	20	ug/L	50.0		101	60-140	0.4	28

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
Tetrachloroethylene [Tetrachloroethene]	42.7	10	ug/L	50.0		85	70-130	6	39
Toluene	47.0	10	ug/L	50.0		94	70-130	2	41
trans-1,2-Dichloroethylene	48.4	10	ug/L	50.0		97	70-130	1	45
Trichloroethylene [Trichloroethene]	50.6	10	ug/L	50.0		101	65-135	4	48
Vinyl chloride [Chloroethene]	57.4	10	ug/L	50.0		115	5-195	8	66
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.0*		*102*	*83-118*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*		
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02					
1,1,1-Trichloroethane	<10	10	ug/L		<10				20
1,1,2,2-Tetrachloroethane	<10	10	ug/L		<10				20
1,1,2-Trichloroethane	<10	10	ug/L		<10				20
1,1-Dichloroethane	<10	10	ug/L		<10				20
1,1-Dichloroethylene	<10	10	ug/L		<10				20
1,2-Dibromoethane	<10	10	ug/L		<10				20
o-Dichlorobenzene	<10	10	ug/L		<10				20
1,2-Dichloroethane	<10	10	ug/L		<10				20
1,2-Dichloropropane	<10	10	ug/L		<10				20
m-Dichlorobenzene	<10	10	ug/L		<10				20
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10				200
p-Dichlorobenzene	<10	10	ug/L		<10				20
2-Chloroethyl Vinyl Ether	<10	10	ug/L		<10				20
Acrolein	<50	50	ug/L		<50				20
Acrylonitrile	<50	50	ug/L		<50				20
Benzene	<10	10	ug/L		<10				20
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L		<10				20
Bromoform	<10	10	ug/L		<10				20
Methyl Bromide	<50	50	ug/L		<50				20
Carbon Tetrachloride	<2	2	ug/L		<2				20
Chlorobenzene	<10	10	ug/L		<10				20
Chloroethane	<50	50	ug/L		<50				20
Chloroform	<10	10	ug/L		<10				20
Methyl Chloride	<50	50	ug/L		<50				20

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Report No. 2407577

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L		<10				20	
Ethylbenzene	<10	10	ug/L		<10				20	
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L		<50				20	
Dichloromethane [Methylene Chloride]	<20	20	ug/L		<20				20	
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L		<10				20	
Toluene	<10	10	ug/L		<10				20	
trans-1,2-Dichloroethylene	<10	10	ug/L		<10				20	
Trichloroethylene [Trichloroethene]	<10	10	ug/L		<10				20	
Vinyl chloride [Chloroethene]	<10	10	ug/L		<10				20	
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.0*		*99*	*80-106*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.0*		*103*	*83-118*			
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:30						
1,1,1-Trichloroethane	48.1	10	ug/L	50.0	<10	96	52-162			
1,1,2,2-Tetrachloroethane	60.4	10	ug/L	50.0	<10	121	46-157			
1,1,2-Trichloroethane	53.7	10	ug/L	50.0	<10	107	52-150			
1,1-Dichloroethane	50.6	10	ug/L	50.0	<10	101	59-155			
1,1-Dichloroethylene	49.7	10	ug/L	50.0	<10	99	1-234			
1,2-Dibromoethane	52.0	10	ug/L	50.0	<10	104	64.7-132			
o-Dichlorobenzene	53.2	10	ug/L	50.0	<10	106	18-190			
1,2-Dichloroethane	52.7	10	ug/L	50.0	<10	105	49-155			
1,2-Dichloropropane	57.0	10	ug/L	50.0	<10	114	1-210			
m-Dichlorobenzene	52.6	10	ug/L	50.0	<10	105	59-156			
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10		0-200			
p-Dichlorobenzene	51.2	10	ug/L	50.0	<10	102	18-190			
2-Chloroethyl Vinyl Ether	52.7	10	ug/L	50.0	<10	105	1-305			
Acrolein	7.83	50	ug/L	50.0	<50	16	40-160			M
Acrylonitrile	46.4	50	ug/L	50.0	<50	93	40-160			
Benzene	47.2	10	ug/L	50.0	<10	94	37-151			
Dichlorobromomethane [Bromodichloromethane]	54.0	10	ug/L	50.0	<10	108	35-155			
Bromoform	48.6	10	ug/L	50.0	<10	97	45-169			
Methyl Bromide	44.6	50	ug/L	50.0	<50	89	1-242			

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

Reported:
12/19/24 17:26
Received:
07/31/24 12:43

Additional Notes:
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Report No. 2407577

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:30				
Carbon Tetrachloride	47.0	2	ug/L	50.0	<2	94	70-140			
Chlorobenzene	51.0	10	ug/L	50.0	<10	102	37-160			
Chloroethane	50.5	50	ug/L	50.0	<50	101	14-230			
Chloroform	48.5	10	ug/L	50.0	<10	97	51-138			
Methyl Chloride	58.4	50	ug/L	50.0	<50	117	1-273			
Dibromochloromethane [Chlorodibromomethane]	51.8	10	ug/L	50.0	<10	104	53-149			
Ethylbenzene	51.7	10	ug/L	50.0	<10	103	37-162			
Methyl Ethyl Ketone (2-Butanone)	50.0	50	ug/L	50.0	<50	100	41.9-177			
Dichloromethane [Methylene Chloride]	50.7	20	ug/L	50.0	<20	101	1-221			
Tetrachloroethylene [Tetrachloroethene]	44.1	10	ug/L	50.0	<10	88	64-148			
Toluene	46.8	10	ug/L	50.0	<10	94	47-150			
trans-1,2-Dichloroethylene	49.4	10	ug/L	50.0	<10	99	54-156			
Trichloroethylene [Trichloroethene]	50.5	10	ug/L	50.0	<10	101	70-157			
Vinyl chloride [Chloroethene]	55.3	10	ug/L	50.0	<10	111	1-251			
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50.0*		*105*	*80-106*			
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.0*		*106*	*83-118*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*			
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:59				
1,1,1-Trichloroethane	45.6	10	ug/L	50.0	<10	91	52-162	5	36	
1,1,2,2-Tetrachloroethane	60.3	10	ug/L	50.0	<10	121	46-157	0.2	61	
1,1,2-Trichloroethane	52.1	10	ug/L	50.0	<10	104	52-150	3	45	
1,1-Dichloroethane	48.2	10	ug/L	50.0	<10	96	59-155	5	40	
1,1-Dichloroethylene	47.0	10	ug/L	50.0	<10	94	1-234	6	32	
1,2-Dibromoethane	51.2	10	ug/L	50.0	<10	102	64.7-132	2	26.5	
o-Dichlorobenzene	50.9	10	ug/L	50.0	<10	102	18-190	4	57	
1,2-Dichloroethane	50.7	10	ug/L	50.0	<10	101	49-155	4	49	
1,2-Dichloropropane	54.4	10	ug/L	50.0	<10	109	1-210	5	55	
m-Dichlorobenzene	49.8	10	ug/L	50.0	<10	100	59-156	6	43	
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L		<10		0-200		200	
p-Dichlorobenzene	49.3	10	ug/L	50.0	<10	99	18-190	4	57	
2-Chloroethyl Vinyl Ether	52.2	10	ug/L	50.0	<10	104	1-305	1	71	
Acrolein	2.85	50	ug/L	50.0	<50	6	40-160	93	60	M S
Acrylonitrile	46.8	50	ug/L	50.0	<50	94	40-160	0.8	60	

CPS Energy - Environmental Dept.
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Report No. 2407577

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433202 - EPA 624.1										
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:59						
Benzene	44.9	10	ug/L	50.0	<10	90	37-151	5	61	
Dichlorobromomethane [Bromodichloromethane]	52.2	10	ug/L	50.0	<10	104	35-155	3	56	
Bromoform	48.5	10	ug/L	50.0	<10	97	45-169	0.2	42	
Methyl Bromide	43.2	50	ug/L	50.0	<50	86	1-242	3	61	
Carbon Tetrachloride	44.6	2	ug/L	50.0	<2	89	70-140	5	41	
Chlorobenzene	48.6	10	ug/L	50.0	<10	97	37-160	5	53	
Chloroethane	47.4	50	ug/L	50.0	<50	95	14-230	6	78	
Chloroform	46.6	10	ug/L	50.0	<10	93	51-138	4	54	
Methyl Chloride	54.4	50	ug/L	50.0	<50	109	1-273	7	60	
Dibromochloromethane [Chlorodibromomethane]	50.5	10	ug/L	50.0	<10	101	53-149	3	50	
Ethylbenzene	49.2	10	ug/L	50.0	<10	98	37-162	5	63	
Methyl Ethyl Ketone (2-Butanone)	51.2	50	ug/L	50.0	<50	102	41.9-177	3	21.3	
Dichloromethane [Methylene Chloride]	48.4	20	ug/L	50.0	<20	97	1-221	5	28	
Tetrachloroethylene [Tetrachloroethene]	41.6	10	ug/L	50.0	<10	83	64-148	6	39	
Toluene	44.6	10	ug/L	50.0	<10	89	47-150	5	41	
trans-1,2-Dichloroethylene	47.3	10	ug/L	50.0	<10	95	54-156	4	45	
Trichloroethylene [Trichloroethene]	47.7	10	ug/L	50.0	<10	95	70-157	6	48	
Vinyl chloride [Chloroethene]	52.8	10	ug/L	50.0	<10	106	1-251	5	66	
Surrogate: 4-Bromofluorobenzene	*53.4*		*ug/L*	*50.0*		*107*	*80-106*			*SurrH*
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*83-118*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*91-109*			

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						

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Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Blank (B433202-BLK1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 14:15					
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*48.3*		*ug/L*	*50.0*		*97*	*81.2-126*		
Surrogate: Toluene-d8	*50.5*		*ug/L*	*50.0*		*101*	*87.4-109*		
LCS (B433202-BS1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 16:36					
Dichlorobromomethane [Bromodichloromethane]	54.2	2.50	ug/L	50.0		108	80-120		
Bromoform	52.0	2.50	ug/L	50.0		104	80-120		
Chloroform	47.5	2.50	ug/L	50.0		95	80-120		
Dibromochloromethane [Chlorodibromomethane]	54.3	2.50	ug/L	50.0		109	80-120		
Surrogate: 4-Bromofluorobenzene	*52.3*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*49.6*		*ug/L*	*50.0*		*99*	*81.2-126*		
Surrogate: Toluene-d8	*49.1*		*ug/L*	*50.0*		*98*	*87.4-109*		
LCS Dup (B433202-BSD1)				Prepared: 08/09/24 12:00 Analyzed: 08/09/24 18:37					
Dichlorobromomethane [Bromodichloromethane]	52.3	2.50	ug/L	50.0		105	80-120	3	20
Bromoform	46.8	2.50	ug/L	50.0		94	80-120	11	20
Chloroform	47.2	2.50	ug/L	50.0		94	80-120	0.8	20
Dibromochloromethane [Chlorodibromomethane]	51.2	2.50	ug/L	50.0		102	80-120	6	20
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.0*		*102*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00 Analyzed: 08/09/24 20:02					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L		<2.50				20
Bromoform	<2.50	2.50	ug/L		<2.50				20
Chloroform	<2.50	2.50	ug/L		<2.50				20
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L		<2.50				20
Total Trihalomethanes	<10.0	10.0	ug/L		<10.0				200
Surrogate: 4-Bromofluorobenzene	*49.7*		*ug/L*	*50.0*		*99*	*65.7-120*		

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Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433202 - EPA 624.1									
Duplicate (B433202-DUP1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:02			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.0*		*103*	*81.2-126*		
Surrogate: Toluene-d8	*49.8*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike (B433202-MS1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:30			
Dichlorobromomethane [Bromodichloromethane]	54.0	2.50	ug/L	50.0	<2.50	108	80-120		
Bromoform	48.6	2.50	ug/L	50.0	<2.50	97	80-120		
Chloroform	48.5	2.50	ug/L	50.0	<2.50	97	80-120		
Dibromochloromethane [Chlorodibromomethane]	51.8	2.50	ug/L	50.0	<2.50	104	80-120		
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*53.0*		*ug/L*	*50.0*		*106*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		
Matrix Spike Dup (B433202-MSD1)		**Source: 2407523-01**		Prepared: 08/09/24 12:00		Analyzed: 08/09/24 20:59			
Dichlorobromomethane [Bromodichloromethane]	52.2	2.50	ug/L	50.0	<2.50	104	80-120	3	20
Bromoform	48.5	2.50	ug/L	50.0	<2.50	97	80-120	0.2	20
Chloroform	46.6	2.50	ug/L	50.0	<2.50	93	80-120	4	20
Dibromochloromethane [Chlorodibromomethane]	50.5	2.50	ug/L	50.0	<2.50	101	80-120	3	20
Surrogate: 4-Bromofluorobenzene	*53.4*		*ug/L*	*50.0*		*107*	*65.7-120*		
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.0*		*106*	*81.2-126*		
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.0*		*100*	*87.4-109*		

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet Week 3

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Report No. 2407577

SAMPLE QUALIFIERS

Z	Fluoride Results 1.24 mg/L
UA	This method is not approved under 40 CFR Part 136 for Clean Water Act compliance samples. However, it accredited under NELAP Scope.
P2	Samples received at pH<2
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2407577-01	CN_Sub
Eurofins - Pittsburgh	2407577-01	Color_SUB

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2407577
ADDRESS: 12940 US HWY 181 S	ADDRESS:	
CITY: San Antonio STATE: TX ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #: 210-213-7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB PP INLET Week 3

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____ °C; LCS/D:_____/_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☐ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY: Isaac Dotray / Katherine Cruz

OBSERVED TEMP. 1.1 °C / CORRECTED TEMP. 1.1 °C / TEMP. IR. GUN # 1 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST/PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 6 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P (See attachment)	PRESERVED WITH: HCl, H2SO4, HNO3, NaOH, 3mETO, mZOZ, COMPOSITED IN THE LAB, FILTERED IN THE LAB, FILTERED IN THE FIELD, VOA AIR BUBBLES	REMARKS
1	7-31-24	1015		X								X			VHB INLET	2	1L	85mL									Y	XXXXXXX	

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
	7-31-24 1243		JUL 31 2024				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Isaac Dotray	7-31-24 1243	Kimeelander	1243				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☐ YES ☐ NO	Enrofing RPTS
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: Inlet Week 3**

Report To:

Chelsey Vasbinder

SATL Report Number: 2407577

Work Order Due by:	08/09/24 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	07/31/24 12:43
Logged In By:	Aimee Landon	Date Logged In:	07/31/24 13:01

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.1°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *07/31/24 12:43*

SATL#FO001
Revised 09/15/2022

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet	Notes
(Process Water Outfalls)	1	CAL/VHB	External	Yes	
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes	Cyanide method OIA 1677
	3	CAL/VHB	External	Yes	
	4	CAL	001 & 007 Only	Yes	No E. coli sampling at VHB
	6	CAL/VHB	External	Yes	
	8	CAL/VHB	External	Yes	
	9	CAL/VHB	External	Yes	

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet
4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

Parameters Ordered from SAL	All except Hg	Use detection limits on permit app tables
	ALL	

[redacted]

Test America	Cn

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____
(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): [redacted]

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** [redacted]

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** [redacted]

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dicblorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☒ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☒ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☒ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.: [illegible]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

Table 5 for Outfall No.:

Samples are (check one): ☒ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: [redacted]

Samples are (check one): ☒ **Composites** ☐ **Grabs**

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

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] **: Volatile Compounds**

Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: **: Acid Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [redacted] **: Base/Neutral Compounds**

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

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ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

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JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-177801-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Job Notes

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PA Lab ID: 02-00416

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Authorization



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Job ID: 180-177801-1 — Eurofins Pittsburgh

Job Narrative
180-177801-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 8/1/2024 10:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. There is no original received by name, date or time listed on the COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 2407577-01 (VHB INLET) (180-177801-1). The container labels list a sample collection time of10:15, while the COC lists 09:30. As per client instruction, the time of 10:15 from container label was used.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-177801-1	2407577-01 (VHB INLET)	Water	07/31/24 10:15	08/01/24 10:00

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Client Sample ID: 2407577-01 (VHB INLET)
Lab Sample ID: 180-177801-1
Date Collected: 07/31/24 10:15
Matrix: Water
Date Received: 08/01/24 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	475698	08/02/24 09:07	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			476340	08/09/24 13:12	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

Client Sample ID: 2407577-01 (VHB INLET)
Lab Sample ID: 180-177801-1
Date Collected: 07/31/24 10:15
Matrix: Water
Date Received: 08/01/24 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			08/02/24 09:07	1
Color, True (SM 2120B-2011)	**15**		5.0	5.0	Color Units			08/02/24 09:07	1
pH at time of analysis (SM 2120B-2011)	**9.4**		0.10	0.10	SU			08/02/24 09:07	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			08/09/24 13:12	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-177801-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-475698/1
Matrix: Water
Analysis Batch: 475698

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			08/02/24 09:00	1
Color, True	ND		5.0	5.0	Color Units			08/02/24 09:00	1
pH at time of analysis	NA		0.10	0.10	SU			08/02/24 09:00	1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-476340/26
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 12:48	1

Lab Sample ID: MB 180-476340/84
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 14:15	1

Lab Sample ID: LCS 180-476340/27
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	52.0		ug/L		104	82 - 132

Lab Sample ID: LCSD 180-476340/86
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Available	50.1	50.9		ug/L		102	82 - 132	2	20

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-177801-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 475698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177801-1	2407577-01 (VHB INLET)	Total/NA	Water	2120B-2011	
MB 180-475698/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-475698/2	Lab Control Sample	Total/NA	Water	2120B-2011	

Analysis Batch: 476340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-177801-1	2407577-01 (VHB INLET)	Total/NA	Water	OIA - 1677	
MB 180-476340/26	Method Blank	Total/NA	Water	OIA - 1677	
MB 180-476340/84	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-476340/27	Lab Control Sample	Total/NA	Water	OIA - 1677	
LCSD 180-476340/86	Lab Control Sample Dup	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SATL	COMPANY SATL	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN Amie Landon PHONE # 2102299920	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ

DATA TO TCEQ ❑ RRC ❑ Other (Specify) ❑ Field pH._____, Temp._____ °C, LCS/D._____/_____, Dup._____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO
PROPER CONTAINERS INTACT ❑ YES ❑ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ❑ YES ❑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ / SAMPLE ICED ❑ YES ❑ NO
TRRP 13 ❑ APPENDIX A ❑ PST PCLS ❑ SIM/LOW LEVEL ❑ TSDF Class 2 ❑ PERMIT ❑

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	CN cyanide 9014/9377	Color Corrosivity alkalinity	HCl	HNO3	H2SO4	NaOH	NaHSO4	5mL ZnOAc	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	VOA AIR BUBBLES	REMARKS
1	7/31/24	0930										X			240757701 (VTBEFulet)	2	500 mL	250 mL																					

180-177801 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Amie Landon	DATE / TIME 7/31/24 1700	RECEIVED BY (PRINT NAME)	DATE / TIME 8/1/24 800	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ❑ (Initial) _____ 5035 ❑ N/A ❑		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT



MARCELA HAWK
210-229-9920
MARCELA HAWK
1610 S. LAREDO STREET
SAN ANTONIO TX 78207

15 LBS

SHIP TO:
SAMPLE RECEIVING
EUROFINS PITTSBURGH
301 ALPHA DRIVE RIDC PARK
PITTSBURGH PA 15238

PA 152 9-22

UPS NEXT DAY AIR
TRACKING #: 1Z 785 26E 01 9197 1978

Uncorrected temp 2.4 °C
Thermometer ID 20
CF -0.4 Initials CW

PT-WI-SR-001 effective 11/8/18

BILLING: P/P

10.00

XOL 24.07.07 NV45 31.0A 07/2024*

EUROFINS PITTSBURGH
301 ALPHA DR

PITTSBURGH PA 15238

P: WHITE S: OUT I: 226
BLAW – 1436
1Z78526E019197 1978 1030
LSZ1FV8 PABEA719UDC AUG 1 08:03:25 2024
US 1522 HIP 24.3.1 ZD621R

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-177801-1

Login Number: 177801

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 19, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2408134
RE: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 08/07/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:

This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB 001	2408134-01	Liquid	Grab	08/07/24 13:05	08/07/24 15:25

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2408134-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 13:05**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	18.1	mg/L	0.10	SM 5310C	B433175	08/10/24 12:34	SM5310C	DD	
Total Alkalinity *	384	mg/L as CaCO3	20.0	SM2320B	B434200	08/16/24 12:30	SM2320B	JA	
Ammonia-Nitrogen *	1.12	mg/L	1.00	SM4500NH3B	B434190	08/16/24 17:11	SM4500NH3C	SG	
Total Kjeldahl Nitrogen *	4.48	mg/L	1.00	EPA 351.3	B434182	08/19/24 15:41	EPA 351.3	SG	
Total Organic Nitrogen	3.36	mg/L	1.00	[CALC]	[CALC]	08/19/24 15:41	CALC	SG	
Sulfide *	<100	ug/L	100	EPA 376.2	B433368	08/12/24 13:10	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B433367	08/08/24 16:00	SM5540C	SG	
Total Dissolved Solids *	1200	mg/L	8.33	SM2540C	B432305	08/14/24 10:00	SM2540C	DD	
Total Suspended Solids *	10.7	mg/L	8.33	SM2540D	B433271	08/13/24 12:11	SM2540D	DD	
COD *	78.2	mg/L	5.00	H8000	B433332	08/15/24 16:32	H8000	DD	
pH *	9.43	pH Units	0.01	SM4500HB	B432292	08/08/24 09:18	SM4500HB	JA	H
pH measured @Temperature >>	61.5	°F	0.100	SM4500HB	B432292	08/08/24 09:18	SM2550B	JA	H
BOD-5 *	5.21	mg/L	2.00	SM5210B	B433250	08/13/24 15:44	SM5210B	DD	
CBOD *	3.32	mg/L	2.00	SM5210B	B433252	08/13/24 08:39	SM5210B	DD	
Dissolved Oxygen *	8.23	mg/L	2.00	EPA 360.1	B433217	08/09/24 09:06	SM4500-O G	DD	
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B433246	08/13/24 15:04	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B433365	08/16/24 14:25	EPA 377.1	SG	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B433369	08/08/24 12:40	I-1230-85	SG	
Residual Chlorine *	0.03	mg/L	0.01	SM4500ClG	B432300	08/16/24 08:35	SM4500ClG	JA	
Total Phosphorous *	0.52	mg/L	0.05	EPA 365.3	B434199	08/16/24 18:50	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1180	ug/L	500	EPA 300.0	B432295	08/08/24 03:36	EPA 300.0	JA	Z
Chloride *	610	mg/L	5.00	EPA 300.0	B432295	08/08/24 13:05	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B432295	08/08/24 03:36	EPA 300.0	JA	
Bromide *	8710	ug/L	400	EPA 300.0	B432295	08/08/24 03:36	EPA 300.0	JA	
Nitrate as N *	0.388	mg/L	0.100	EPA 300.0	B432295	08/08/24 03:36	EPA 300.0	JA	
Sulfate *	142	mg/L	5.00	EPA 300.0	B432295	08/08/24 13:05	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	0.3880	mg/L	0.2000	[CALC]	[CALC]	08/08/24 03:36	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2408134-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 13:05**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									**P2**
Aluminum *	14	ug/L	2	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Barium *	51	ug/L	3	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Boron *	964	ug/L	20	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Cobalt *	0.4	ug/L	0.3	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Copper *	3	ug/L	2	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Iron *	294	ug/L	7	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Magnesium *	49100	ug/L	20	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Nickel *	5	ug/L	2	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Tin *	6	ug/L	5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Zinc *	25	ug/L	5	EPA 200.8	B433278	08/15/24 17:22	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	08/15/24 17:22	CALC	SG	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	CH
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2408134-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 13:05**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:21	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*45 %*	*18.3-110*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*43 %*	*15.6-80.4*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*20 %*	*2.8-70.6*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*43 %*	*8.98-84*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*15 %*	*1.11-63.5*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*64 %*	*8.46-114*		*EPA 3510C*	*B433340*	*08/16/24 16:21*	*EPA 625.1*	*ME*	

CPS Energy - Environmental Dept.
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San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:

This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2408134-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 13:05**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B433339	08/16/24 16:21	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*43 %*		*5-89.9*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*43 %*		*27-111*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*13 %*		*5-64.3*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*17 %*		*5-64.3*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*59 %*		*5-114*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*36 %*		*22-117*	*ASTM D7065-11*	*B433339*	*08/16/24 16:21*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:44	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*75 %*		*15.3-112*	*EPA 608.3*	*B434179*	*08/20/24 13:44*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*44 %*		*10.2-92.4*	*EPA 608.3*	*B434179*	*08/20/24 13:44*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
1,3-Dichloropropylene [1,3-Dichloropro	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Acrolein *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Benzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Bromoform *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	

CPS Energy - Environmental Dept.
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

Sample ID #: VHB 001 **Sampling Method: Grab** **Lab Sample ID #: 2408134-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 13:05**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS									
Carbon Tetrachloride *	<2	ug/L	2	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Chlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Chloroethane *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Chloroform *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Methyl Chloride *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Ethylbenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Dichloromethane [Methylene Chloride]	<20	ug/L	20	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Toluene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
trans-1,2-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Vinyl chloride [Chloroethene] *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*97 %*		*80-106*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*96 %*		*83-118*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*98 %*		*91-109*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	
Total Trihalomethanes by GC/MS									
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Bromoform *	<2.50	ug/L	2.50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Chloroform *	<2.50	ug/L	2.50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0	EPA 624.1	B435190	08/21/24 19:16	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0	[CALC]	[CALC]	08/21/24 19:16	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene	*97 %*		*65.7-120*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane	*96 %*		*81.2-126*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8	*98 %*		*87.4-109*	*EPA 624.1*	*B435190*	*08/21/24 19:16*	*EPA 624.1*	*ME*	

CPS Energy - Environmental Dept.
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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432292 - SM4500HB										
LCS (B432292-BS1)				Prepared: 08/08/24 09:00		Analyzed: 08/08/24 09:10				
pH	7.05	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	20.0	0.100	°F				0-200			
Duplicate (B432292-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 09:00		Analyzed: 08/08/24 09:20				
pH	9.47	0.01	pH Units		9.43			0.4	20	H
pH measured @Temperature >>	16.4	0.100	°F		61.5			116	30	H S
Duplicate (B432292-DUP2)		**Source: 2408119-02**		Prepared: 08/08/24 09:00		Analyzed: 08/09/24 11:38				
pH	1.20	0.01	pH Units		1.21			0.8	20	H
pH measured @Temperature >>	20.6	0.100	°F		20.6			0	30	H
Batch B432300 - SM4500ClG										
Blank (B432300-BLK1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432300-BS1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	0.247	0.01	mg/L	0.250		99	80-120			
LCS Dup (B432300-BSD1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	0.251	0.01	mg/L	0.250		100	80-120	2	20	
Duplicate (B432300-DUP1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.0280	0.01	mg/L		0.0340			19	20	
Matrix Spike (B432300-MS1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.137	0.01	mg/L	0.250	0.0340	41	80-120			M
Matrix Spike Dup (B432300-MSD1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.134	0.01	mg/L	0.250	0.0340	40	80-120	2	20	M
Batch B432305 - SM2540C										
Blank (B432305-BLK1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:40				
Total Dissolved Solids	<2.50	2.50	mg/L							
LCS (B432305-BS1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:41				
Total Dissolved Solids	84.0	2.50	mg/L	100		84	80-120			
LCS Dup (B432305-BSD1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:42				

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Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432305 - SM2540C										
LCS Dup (B432305-BSD1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:42				
Total Dissolved Solids	81.0	2.50	mg/L	100		81	80-120	4	20	
Duplicate (B432305-DUP1)		**Source: 2408105-02**		Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:43				
Total Dissolved Solids	1070	83.3	mg/L		967			10	20	
Batch B433175 - SM 5310C										
Blank (B433175-BLK1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 13:39				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B433175-BS1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 14:06				
Total Organic Carbon	4.09	0.10	mg/L	5.00		82	80-120			
LCS Dup (B433175-BSD1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 14:32				
Total Organic Carbon	4.33	0.10	mg/L	5.00		87	80-120	6	20	
Duplicate (B433175-DUP1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 20:03				
Total Organic Carbon	14.6	0.10	mg/L		14.4			1	20	
Matrix Spike (B433175-MS1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 20:35				
Total Organic Carbon	14.8	0.10	mg/L	5.00	14.4	9	70-130			M
Matrix Spike Dup (B433175-MSD1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 21:34				
Total Organic Carbon	14.8	0.10	mg/L	5.00	14.4	7	70-130	0.5	20	M
Batch B433217 - EPA 360.1										
Duplicate (B433217-DUP1)		**Source: 2408121-01**		Prepared: 08/09/24 09:00		Analyzed: 08/09/24 09:08				
Dissolved Oxygen	8.10	2.00	mg/L		8.11			0.1	20	
Batch B433246 - EPA 1664A										
Blank (B433246-BLK1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:00				
Oil & Grease (HEM)	<4.75	4.75	mg/L							
LCS (B433246-BS1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:01				
Oil & Grease (HEM)	32.4	4.75	mg/L	40.0		81	78-114			
LCS Dup (B433246-BSD1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:02				
Oil & Grease (HEM)	32.9	4.75	mg/L	40.0		82	78-114	2	18	

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Additional Notes:
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Report No. 2408134

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433246 - EPA 1664A									
Matrix Spike (B433246-MS1)		**Source: 2408134-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:03			
Oil & Grease (HEM)	38.4	4.75	mg/L	40.0	<4.75	96	78-114		
Batch B433250 - SM5210B									
Blank (B433250-BLK1)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:30			
BOD-5	<2.00	2.00	mg/L						
LCS (B433250-BS1)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:31			
BOD-5	197	2.00	mg/L	200		98	80-120		
LCS (B433250-BS2)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:32			
BOD-5	221	2.00	mg/L	200		110	80-120		
LCS (B433250-BS3)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:33			
BOD-5	212	2.00	mg/L	200		106	80-120		
Duplicate (B433250-DUP1)		**Source: 2408115-01**		Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:34			
BOD-5	57.0	2.00	mg/L		56.6			0.7	20
Batch B433252 - SM5210B									
Blank (B433252-BLK1)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:00			
CBOD	<2.00	2.00	mg/L						
LCS (B433252-BS1)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:01			
CBOD	197	2.00	mg/L	200		98	80-120		
LCS (B433252-BS2)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:02			
CBOD	221	2.00	mg/L	200		110	80-120		
LCS (B433252-BS3)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:03			
CBOD	212	2.00	mg/L	200		106	80-120		
Duplicate (B433252-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:04			
CBOD	3.71	2.00	mg/L		3.32			11	20
Batch B433271 - SM2540D									
Blank (B433271-BLK1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:00			
Total Suspended Solids	<2.50	2.50	mg/L						

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Report No. 2408134

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433271 - SM2540D									
LCS (B433271-BS1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:01			
Total Suspended Solids	82.0	25.0	mg/L	100		82	80-120		
LCS Dup (B433271-BSD1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:02			
Total Suspended Solids	89.0	25.0	mg/L	100		89	80-120	8	20
Duplicate (B433271-DUP1)		**Source: 2408078-10**		Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:03			
Total Suspended Solids	433	83.3	mg/L		527			19	20
Batch B433332 - H8000									
Blank (B433332-BLK1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:25			
COD	<5.00	5.00	mg/L						
LCS (B433332-BS1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:26			
COD	57.8	5.00	mg/L	50.0		116	80-120		
LCS Dup (B433332-BSD1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:27			
COD	58.8	5.00	mg/L	50.0		118	80-120	2	20
Duplicate (B433332-DUP1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:28			
COD	69.4	5.00	mg/L		64.8			7	20
Matrix Spike (B433332-MS1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:29			
COD	120	5.00	mg/L	50.0	64.8	111	80-120		
Matrix Spike Dup (B433332-MSD1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:30			
COD	105	5.00	mg/L	50.0	64.8	80	80-120	14	20
Batch B433365 - SM4500-SO3(B)									
Blank (B433365-BLK1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:00			
Sulfite	<1000	1000	ug/L						
LCS (B433365-BS1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:05			
Sulfite	10000	1000	ug/L	10000		100	80-120		
LCS Dup (B433365-BSD1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:08			
Sulfite	11000	1000	ug/L	10000		110	80-120	10	20
Duplicate (B433365-DUP1)		**Source: 2408121-01**		Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:28			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433365 - SM4500-SO3(B)									
Duplicate (B433365-DUP1)		**Source: 2408121-01**		Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:28			
Sulfite	<1000	1000	ug/L		<1000				20
Batch B433367 - SM5540 C									
Blank (B433367-BLK1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B433367-BS1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	255	200	ug/L	250		102	80-120		
LCS Dup (B433367-BSD1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	255	200	ug/L	250		102	80-120	0	20
Duplicate (B433367-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20
Batch B433368 - EPA 376.2									
Blank (B433368-BLK1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	<100	100	ug/L						
LCS (B433368-BS1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	91.0	100	ug/L	100		91	80-120		
LCS Dup (B433368-BSD1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	94.0	100	ug/L	100		94	80-120	3	20
Duplicate (B433368-DUP1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B433368-MS1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	88.0	100	ug/L	100	<100	88	70-130		
Matrix Spike Dup (B433368-MSD1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	86.0	100	ug/L	100	<100	86	70-130	2	30
Batch B433369 - I-1230-85									

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433369 - I-1230-85									
Blank (B433369-BLK1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	<3	3	ug/L						
LCS (B433369-BS1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	440	3	ug/L	400		110	90-110		
LCS Dup (B433369-BSD1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	410	3	ug/L	400		102	90-110	7	20
Duplicate (B433369-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	<3	3	ug/L		<3				20
Matrix Spike (B433369-MS1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	394	3	ug/L	400	<3	98	80-120		
Matrix Spike Dup (B433369-MSD1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	385	3	ug/L	400	<3	96	80-120	2	20
Batch B434182 - EPA 351.3									
Blank (B434182-BLK1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:30			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B434182-BS1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:31			
Total Kjeldahl Nitrogen	20.7	1.00	mg/L	20.0		104	80-120		
LCS Dup (B434182-BSD1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:32			
Total Kjeldahl Nitrogen	21.9	1.00	mg/L	20.0		109	80-120	5	20
Duplicate (B434182-DUP1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:33			
Total Kjeldahl Nitrogen	4.48	1.00	mg/L		5.04			12	20
Matrix Spike (B434182-MS1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:34			
Total Kjeldahl Nitrogen	24.7	1.00	mg/L	20.0	5.04	98	80-120		
Matrix Spike Dup (B434182-MSD1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:35			
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	5.04	95	80-120	2	20
Batch B434190 - SM4500NH3B									
Blank (B434190-BLK1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:00			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B434190 - SM4500NH3B										
Blank (B434190-BLK1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:00				
Ammonia-Nitrogen	<1.00	1.00	mg/L							
LCS (B434190-BS1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:01				
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120			
LCS Dup (B434190-BSD1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:02				
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120	0	20	
Duplicate (B434190-DUP1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:03				
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20	
Matrix Spike (B434190-MS1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:04				
Ammonia-Nitrogen	24.1	1.00	mg/L	20.0	1.12	115	80-120			
Matrix Spike Dup (B434190-MSD1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:05				
Ammonia-Nitrogen	21.9	1.00	mg/L	20.0	1.12	104	80-120	10	200	
Batch B434199 - EPA 365.3										
Blank (B434199-BLK1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30				
Total Phosphorous	<0.05	0.05	mg/L							
LCS (B434199-BS1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30				
Total Phosphorous	0.466	0.05	mg/L	0.500		93	80-120			
LCS Dup (B434199-BSD1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30				
Total Phosphorous	0.475	0.05	mg/L	0.500		95	80-120	2	20	
Duplicate (B434199-DUP1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.543	0.05	mg/L		0.562			3	20	
Duplicate (B434199-DUP2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.490	0.05	mg/L		0.483			1	20	
Matrix Spike (B434199-MS1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.562	35	80-120			M
Matrix Spike (B434199-MS2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.748	0.05	mg/L	0.500	0.483	53	80-120			M
Matrix Spike Dup (B434199-MSD1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B434199 - EPA 365.3										
Total Phosphorous	0.749	0.05	mg/L	0.500	0.562	37	80-120	2	20	M
Matrix Spike Dup (B434199-MSD2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.759	0.05	mg/L	0.500	0.483	55	80-120	1	20	M
Batch B434200 - SM2320B										
Blank (B434200-BLK1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 12:40				
Total Alkalinity	<20.0	20.0	mg/L as CaCO3							
LCS (B434200-BS1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 11:10				
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120			
LCS Dup (B434200-BSD1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 11:15				
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120	4	20	
Duplicate (B434200-DUP1)		**Source: 2408133-01**		Prepared: 08/16/24 11:00		Analyzed: 08/16/24 12:50				
Total Alkalinity	388	20.0	mg/L as CaCO3		392			1	20	

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432295 - EPA 300.0									
Blank (B432295-BLK1)				Prepared: 08/07/24 17:00		Analyzed: 08/07/24 17:29			
Fluoride	<500	500	ug/L						
Chloride	<0.100	0.100	mg/L						
Nitrite as N	<100	100	ug/L						
Bromide	<400	400	ug/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B432295-BS1)				Prepared: 08/07/24 17:00		Analyzed: 08/07/24 17:47			
Fluoride	996	500	ug/L	1000		100	90-110		
Chloride	5.22	0.100	mg/L	5.00		104	90-110		
Nitrite as N	4730	100	ug/L	5000		95	90-110		
Bromide	4620	400	ug/L	5000		92	90-110		
Nitrate as N	5.27	0.100	mg/L	5.00		105	90-110		

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432295 - EPA 300.0										
LCS (B432295-BS1)				Prepared: 08/07/24 17:00		Analyzed: 08/07/24 17:47				
Sulfate	5.28	0.10	mg/L	5.00		106	90-110			
LCS Dup (B432295-BSD1)				Prepared: 08/07/24 17:00		Analyzed: 08/07/24 18:05				
Fluoride	993	500	ug/L	1000		99	90-110	0.4	20	
Chloride	5.20	0.100	mg/L	5.00		104	90-110	0.4	20	
Nitrite as N	4750	100	ug/L	5000		95	90-110	0.3	20	
Bromide	4610	400	ug/L	5000		92	90-110	0.3	20	
Nitrate as N	5.27	0.100	mg/L	5.00		105	90-110	0.009	20	
Sulfate	5.10	0.10	mg/L	5.00		102	90-110	4	20	
Duplicate (B432295-DUP1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 01:14				
Fluoride	1030	500	ug/L		1020			0.02	20	
Chloride	511	5.00	mg/L		526			3	20	
Nitrite as N	<100	100	ug/L		<100				20	
Bromide	11800	400	ug/L		11800			0.3	20	
Nitrate as N	0.0873	0.100	mg/L		0.0858			2	20	
Sulfate	231	5.00	mg/L		234			1	20	
Duplicate (B432295-DUP2)		**Source: 2408143-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 00:38				
Fluoride	4700	50000	ug/L		5290			12	20	
Nitrite as N	<10000	10000	ug/L		<10000				20	
Nitrate as N	1.56	10.00	mg/L		1.41			10	20	
Sulfate	1500	10.0	mg/L		1510			0.3	20	
Matrix Spike (B432295-MS1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 01:31				
Fluoride	1860	500	ug/L	1000	1020	84	80-120			
Chloride	283	0.100	mg/L	5.00	526	NR	80-120			M
Nitrite as N	4150	100	ug/L	5000	<100	83	80-120			
Bromide	16100	400	ug/L	5000	11800	87	80-120			
Nitrate as N	4.86	0.100	mg/L	5.00	0.0858	95	80-120			
Sulfate	325	0.10	mg/L	5.00	234	NR	80-120			M
Matrix Spike Dup (B432295-MSD1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 01:49				
Fluoride	1860	500	ug/L	1000	1020	83	80-120	0.2	20	
Chloride	283	0.100	mg/L	5.00	526	NR	80-120	0.004	20	M
Nitrite as N	4160	100	ug/L	5000	<100	83	80-120	0.3	20	
Bromide	16100	400	ug/L	5000	11800	87	80-120	0.1	20	

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432295 - EPA 300.0										
Matrix Spike Dup (B432295-MSD1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00 Analyzed: 08/08/24 01:49						
Nitrate as N	4.85	0.100	mg/L	5.00	0.0858	95	80-120	0.1	20	
Sulfate	325	0.10	mg/L	5.00	234	NR	80-120	0.08	20	M

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433278 - EPA 200.8									
Blank (B433278-BLK1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:25					
Aluminum	<2	2	ug/L						
Antimony	<5	5	ug/L						
Barium	<3	3	ug/L						
Beryllium	<0.5	0.5	ug/L						
Boron	<20	20	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Cobalt	<0.3	0.3	ug/L						
Copper	<2	2	ug/L						
Iron	<7	7	ug/L						
Lead	<0.5	0.5	ug/L						
Magnesium	<20	20	ug/L						
Manganese	<0.5	0.5	ug/L						
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						
LCS (B433278-BS1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:29					
Aluminum	977	2	ug/L	1000		98	85-115		
Antimony	103	5	ug/L	100		103	85-115		
Barium	101	3	ug/L	100		101	85-115		

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433278 - EPA 200.8									
LCS (B433278-BS1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:29					
Beryllium	99.4	0.5	ug/L	100		99	85-115		
Boron	105	20	ug/L	100		105	85-115		
Cadmium	97.5	1	ug/L	100		97	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.9	0.3	ug/L	100		100	85-115		
Copper	96.9	2	ug/L	100		97	85-115		
Iron	932	7	ug/L	1000		93	85-115		
Lead	91.2	0.5	ug/L	100		91	85-115		
Magnesium	1090	20	ug/L	1000		109	85-115		
Manganese	96.8	0.5	ug/L	100		97	85-115		
Molybdenum	96.4	1	ug/L	100		96	85-115		
Nickel	99.6	2	ug/L	100		100	85-115		
Silver	90.0	0.5	ug/L	100		90	85-115		
Thallium	86.0	0.5	ug/L	100		86	85-115		
Tin	101	5	ug/L	100		101	85-115		
Titanium	100	30	ug/L	100		100	85-115		
Zinc	99.7	5	ug/L	100		100	85-115		
LCS Dup (B433278-BSD1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:32					
Aluminum	1030	2	ug/L	1000		103	85-115	6	20
Antimony	104	5	ug/L	100		104	85-115	0.9	20
Barium	103	3	ug/L	100		103	85-115	2	20
Beryllium	106	0.5	ug/L	100		106	85-115	6	20
Boron	110	20	ug/L	100		110	85-115	5	20
Cadmium	96.7	1	ug/L	100		97	85-115	0.8	20
Chromium	104	3	ug/L	100		104	85-115	6	20
Cobalt	104	0.3	ug/L	100		104	85-115	4	20
Copper	100	2	ug/L	100		100	85-115	3	20
Iron	985	7	ug/L	1000		99	85-115	5	20
Lead	95.5	0.5	ug/L	100		95	85-115	5	20
Magnesium	1140	20	ug/L	1000		114	85-115	4	20
Manganese	101	0.5	ug/L	100		101	85-115	4	20
Molybdenum	98.0	1	ug/L	100		98	85-115	2	20
Nickel	104	2	ug/L	100		104	85-115	5	20
Silver	91.3	0.5	ug/L	100		91	85-115	1	20
Thallium	89.1	0.5	ug/L	100		89	85-115	4	20

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
LCS Dup (B433278-BSD1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:32						
Tin	104	5	ug/L	100		104	85-115	2	20	
Titanium	107	30	ug/L	100		107	85-115	6	20	
Zinc	102	5	ug/L	100		102	85-115	2	20	
Duplicate (B433278-DUP1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:39						
Aluminum	17.5	2	ug/L		26.0			39	20	S
Antimony	<5	5	ug/L		<5				20	
Barium	41.7	3	ug/L		40.8			2	20	
Beryllium	0.0185	0.5	ug/L		0.0239			26	20	S
Boron	1000	20	ug/L		996			0.8	20	
Cadmium	0.0268	1	ug/L		0.0299			11	20	
Chromium	0.799	3	ug/L		0.825			3	20	
Cobalt	0.443	0.3	ug/L		0.429			3	20	
Copper	0.826	2	ug/L		0.825			0.08	20	
Iron	283	7	ug/L		272			4	20	
Lead	0.0884	0.5	ug/L		0.0892			0.9	20	
Magnesium	45300	20	ug/L		45500			0.4	20	
Manganese	8.85	0.5	ug/L		8.78			0.7	20	
Molybdenum	5.54	1	ug/L		5.71			3	20	
Nickel	6.92	2	ug/L		6.92			0.02	20	
Silver	<0.5	0.5	ug/L		0.0780				20	
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	5.28	5	ug/L		5.68			7	20	
Titanium	2.34	30	ug/L		2.29			2	20	
Zinc	21.7	5	ug/L		16.3			28	20	S
Matrix Spike (B433278-MS1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:43						
Aluminum	951	2	ug/L	1000	26.0	92	75-125			
Antimony	109	5	ug/L	100	<5	109	75-125			
Barium	145	3	ug/L	100	40.8	104	75-125			
Beryllium	89.6	0.5	ug/L	100	0.0239	90	75-125			
Boron	1060	20	ug/L	100	996	64	75-125			M
Cadmium	98.4	1	ug/L	100	0.0299	98	75-125			
Chromium	91.2	3	ug/L	100	0.825	90	75-125			
Cobalt	91.5	0.3	ug/L	100	0.429	91	75-125			
Copper	88.1	2	ug/L	100	0.825	87	75-125			

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
Matrix Spike (B433278-MS1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:43				
Iron	1090	7	ug/L	1000	272	82	75-125			
Lead	97.8	0.5	ug/L	100	0.0892	98	75-125			
Magnesium	44600	20	ug/L	1000	45500	NR	75-125			M
Manganese	94.3	0.5	ug/L	100	8.78	85	75-125			
Molybdenum	107	1	ug/L	100	5.71	102	75-125			
Nickel	94.7	2	ug/L	100	6.92	88	75-125			
Silver	97.9	0.5	ug/L	100	0.0780	98	75-125			
Thallium	96.5	0.5	ug/L	100	<0.5	96	75-125			
Tin	111	5	ug/L	100	5.68	105	75-125			
Titanium	95.2	30	ug/L	100	2.29	93	75-125			
Zinc	109	5	ug/L	100	16.3	92	75-125			
Matrix Spike Dup (B433278-MSD1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:46				
Aluminum	986	2	ug/L	1000	26.0	96	75-125	4	20	
Antimony	113	5	ug/L	100	<5	113	75-125	4	20	
Barium	150	3	ug/L	100	40.8	109	75-125	3	20	
Beryllium	93.6	0.5	ug/L	100	0.0239	94	75-125	4	20	
Boron	1060	20	ug/L	100	996	61	75-125	0.3	20	M
Cadmium	102	1	ug/L	100	0.0299	102	75-125	4	20	
Chromium	93.6	3	ug/L	100	0.825	93	75-125	3	20	
Cobalt	94.1	0.3	ug/L	100	0.429	94	75-125	3	20	
Copper	90.7	2	ug/L	100	0.825	90	75-125	3	20	
Iron	1140	7	ug/L	1000	272	87	75-125	4	20	
Lead	100	0.5	ug/L	100	0.0892	100	75-125	2	20	
Magnesium	44800	20	ug/L	1000	45500	NR	75-125	0.5	20	M
Manganese	96.8	0.5	ug/L	100	8.78	88	75-125	3	20	
Molybdenum	112	1	ug/L	100	5.71	106	75-125	4	20	
Nickel	100	2	ug/L	100	6.92	93	75-125	6	20	
Silver	101	0.5	ug/L	100	0.0780	101	75-125	3	20	
Thallium	100	0.5	ug/L	100	<0.5	100	75-125	4	20	
Tin	113	5	ug/L	100	5.68	108	75-125	2	20	
Titanium	101	30	ug/L	100	2.29	98	75-125	6	20	
Zinc	115	5	ug/L	100	16.3	98	75-125	5	20	

Semivolatile Organic Compounds by GC/MS - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
Blank (B433340-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*67.5*		*ug/L*	*100*		*67*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*123*		*ug/L*	*200*		*62*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*68.5*		*ug/L*	*100*		*68*	*8.98-84*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
Blank (B433340-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28						
Surrogate: Phenol-d5	*105*		*ug/L*	*200*		*53*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*86.9*		*ug/L*	*100*		*87*	*8.46-114*			
LCS (B433340-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50						
1,2,4,5-Tetrachlorobenzene	59.5	20	ug/L	80.0		74	0.449-117			
2,4,5-Trichlorophenol	62.7	50	ug/L	80.0		78	20-108			
2,4,6-Trichlorophenol	62.7	10	ug/L	80.0		78	37-144			
2,4-Dichlorophenol	53.9	10	ug/L	80.0		67	39-135			
2,4-Dimethylphenol	67.1	10	ug/L	80.0		84	32-119			
2,4-Dinitrophenol	114	50	ug/L	80.0		143	5-191			CH
2-Chlorophenol	52.4	10	ug/L	80.0		66	23-134			
o-Cresol	52.8	10	ug/L	80.0		66	8-87			
2-Nitrophenol	78.0	20	ug/L	80.0		98	29-182			CH
3,3´-Dichlorobenzidine	72.9	5	ug/L	80.0		91	4.34-262			
m-Cresol & p-Cresol	64.1	10	ug/L	80.0		80	6-85			
4,6-Dinitro-o-cresol	118	50	ug/L	80.0		148	5-181			CH
p-Chloro-m-cresol	58.8	10	ug/L	80.0		73	22-147			
4-Nitrophenol	60.3	50	ug/L	80.0		75	5-132			
Anthracene	62.2	10	ug/L	80.0		78	27-133			
Benz(a)anthracene	64.5	5	ug/L	80.0		81	33-143			
Benzidine	70.6	50	ug/L	80.0		88	5-73			L
Benzo(a)pyrene	70.9	5	ug/L	80.0		89	17-163			
Bis(2-Chloroethyl)ether	42.1	10	ug/L	80.0		53	12-158			CL
Bis(2-Ethylhexyl)phthalate	66.9	10	ug/L	80.0		84	8-158			
Chrysene	65.4	5	ug/L	80.0		82	17-168			
Di-n-butylphthalate	62.4	10	ug/L	80.0		78	1-118			
Hexachlorobenzene	62.6	5	ug/L	80.0		78	5-152			
Hexachlorobutadiene	46.5	10	ug/L	80.0		58	24-116			
Hexachlorocyclopentadiene	50.0	10	ug/L	80.0		62	12-69			
Hexachloroethane	40.9	20	ug/L	80.0		51	40-113			
Nitrobenzene	54.2	10	ug/L	80.0		68	35-180			
N-Nitrosodiethylamine	46.1	20	ug/L	80.0		58	-2.55-178			
N-Nitrosodi-n-butylamine	43.6	20	ug/L	80.0		54	-4.28-193			
Pentachlorobenzene	60.8	20	ug/L	80.0		76	-1.08-131			
Pentachlorophenol	76.2	5	ug/L	80.0		95	14-176			
Phenanthrene	55.6	10	ug/L	80.0		70	54-120			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
LCS (B433340-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50						
Phenol	36.2	10	ug/L	80.0		45	5-112			
Pyridine	32.6	20	ug/L	80.0		41	5-73			
Surrogate: 2,4,6-Tribromophenol	*179*		*ug/L*	*200*		*90*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*67.9*		*ug/L*	*100*		*68*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*112*		*ug/L*	*200*		*56*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*69.9*		*ug/L*	*100*		*70*	*8.98-84*			
Surrogate: Phenol-d5	*95.0*		*ug/L*	*200*		*47*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*88.8*		*ug/L*	*100*		*89*	*8.46-114*			
LCS Dup (B433340-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11						
1,2,4,5-Tetrachlorobenzene	53.2	20	ug/L	80.0		66	0.449-117	11	25.7	
2,4,5-Trichlorophenol	57.3	50	ug/L	80.0		72	20-108	9	64	
2,4,6-Trichlorophenol	58.3	10	ug/L	80.0		73	37-144	7	67	
2,4-Dichlorophenol	51.7	10	ug/L	80.0		65	39-135	4	70	
2,4-Dimethylphenol	62.2	10	ug/L	80.0		78	32-119	8	72	
2,4-Dinitrophenol	106	50	ug/L	80.0		133	5-191	7	142	CH
2-Chlorophenol	47.9	10	ug/L	80.0		60	23-134	9	67	
o-Cresol	49.8	10	ug/L	80.0		62	8-87	6	59	
2-Nitrophenol	73.7	20	ug/L	80.0		92	29-182	6	66	CH
3,3´-Dichlorobenzidine	67.8	5	ug/L	80.0		85	4.34-262	7	50	
m-Cresol & p-Cresol	59.3	10	ug/L	80.0		74	6-85	8	63	
4,6-Dinitro-o-cresol	109	50	ug/L	80.0		136	5-181	8	88	CH
p-Chloro-m-cresol	54.4	10	ug/L	80.0		68	22-147	8	66	
4-Nitrophenol	55.9	50	ug/L	80.0		70	5-132	8	84	
Anthracene	57.3	10	ug/L	80.0		72	27-133	8	64	
Benz(a)anthracene	59.6	5	ug/L	80.0		74	33-143	8	65	
Benzidine	67.0	50	ug/L	80.0		84	5-73	5	87	L
Benzo(a)pyrene	64.0	5	ug/L	80.0		80	17-163	10	69	
Bis(2-Chloroethyl)ether	38.7	10	ug/L	80.0		48	12-158	9	40	CL
Bis(2-Ethylhexyl)phthalate	63.6	10	ug/L	80.0		80	8-158	5	72	
Chrysene	54.1	5	ug/L	80.0		68	17-168	19	65	
Di-n-butylphthalate	58.3	10	ug/L	80.0		73	1-118	7	68	
Hexachlorobenzene	56.8	5	ug/L	80.0		71	5-152	10	69	
Hexachlorobutadiene	43.5	10	ug/L	80.0		54	24-116	7	49	
Hexachlorocyclopentadiene	45.3	10	ug/L	80.0		57	12-69	10	65	
Hexachloroethane	37.6	20	ug/L	80.0		47	40-113	8	42	

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Report No. 2408134

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433340 - EPA 3510C									
LCS Dup (B433340-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11					
Nitrobenzene	51.5	10	ug/L	80.0		64	35-180	5	41
N-Nitrosodiethylamine	43.6	20	ug/L	80.0		54	-2.55-178	6	29
N-Nitrosodi-n-butylamine	43.1	20	ug/L	80.0		54	-4.28-193	1	37.8
Pentachlorobenzene	54.7	20	ug/L	80.0		68	-1.08-131	11	25.5
Pentachlorophenol	69.9	5	ug/L	80.0		87	14-176	9	50
Phenanthrene	52.6	10	ug/L	80.0		66	54-120	6	66
Phenol	33.8	10	ug/L	80.0		42	5-112	7	69
Pyridine	30.8	20	ug/L	80.0		39	5-73	6	36
Surrogate: 2,4,6-Tribromophenol	*162*		*ug/L*	*200*		*81*	*18.3-110*		
Surrogate: 2-Fluorobiphenyl	*61.6*		*ug/L*	*100*		*62*	*15.6-80.4*		
Surrogate: 2-Fluorophenol	*102*		*ug/L*	*200*		*51*	*2.8-70.6*		
Surrogate: Nitrobenzene-d5	*63.0*		*ug/L*	*100*		*63*	*8.98-84*		
Surrogate: Phenol-d5	*87.1*		*ug/L*	*200*		*44*	*1.11-63.5*		
Surrogate: Terphenyl-d14	*80.1*		*ug/L*	*100*		*80*	*8.46-114*		

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433339 - ASTM D7065-11									
Blank (B433339-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*163*		*ug/L*	*200*		*82*	*5-89.9*		
Surrogate: Phenol-d5	*91.6*		*ug/L*	*200*		*46*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*66.6*		*ug/L*	*100*		*67*	*27-111*		
Surrogate: 2-Fluorophenol	*104*		*ug/L*	*200*		*52*	*5-64.3*		
Surrogate: Terphenyl-d14	*80.8*		*ug/L*	*100*		*81*	*5-114*		
Surrogate: Nitrobenzene-d5	*57.1*		*ug/L*	*100*		*57*	*22-117*		
LCS (B433339-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50					
Nonylphenol	389	333	ug/L	500		78	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*175*		*ug/L*	*200*		*88*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*67.0*		*ug/L*	*100*		*67*	*27-111*		
Surrogate: Phenol-d5	*82.8*		*ug/L*	*200*		*41*	*5-64.3*		

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Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433339 - ASTM D7065-11									
LCS (B433339-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50					
Surrogate: Terphenyl-d14	*82.5*		*ug/L*	*100*		*83*	*5-114*		
Surrogate: 2-Fluorophenol	*94.0*		*ug/L*	*200*		*47*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*58.3*		*ug/L*	*100*		*58*	*22-117*		
LCS Dup (B433339-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11					
Nonylphenol	360	333	ug/L	500		72	32.3-103	8	21.4
Surrogate: 2,4,6-Tribromophenol	*158*		*ug/L*	*200*		*79*	*5-89.9*		
Surrogate: Phenol-d5	*75.8*		*ug/L*	*200*		*38*	*5-64.3*		
Surrogate: 2-Fluorobiphenyl	*60.8*		*ug/L*	*100*		*61*	*27-111*		
Surrogate: 2-Fluorophenol	*85.6*		*ug/L*	*200*		*43*	*5-64.3*		
Surrogate: Terphenyl-d14	*74.4*		*ug/L*	*100*		*74*	*5-114*		
Surrogate: Nitrobenzene-d5	*52.6*		*ug/L*	*100*		*53*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B434179 - EPA 608.3									
Blank (B434179-BLK1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:16					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.910*		*ug/L*	*1.00*		*91*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.512*		*ug/L*	*1.00*		*51*	*10.2-92.4*		
LCS (B434179-BS1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:27					
PCB 1016	6.94	0.2	ug/L	10.0		69	13.9-125		
PCB 1260	7.04	0.2	ug/L	10.0		70	29.3-140		
Surrogate: Decachlorobiphenyl	*0.928*		*ug/L*	*1.00*		*93*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.451*		*ug/L*	*1.00*		*45*	*10.2-92.4*		

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B434179 - EPA 608.3									
LCS Dup (B434179-BSD1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:38					
PCB 1016	6.74	0.2	ug/L	10.0		67	13.9-125	3	29.5
PCB 1260	6.98	0.2	ug/L	10.0		70	29.3-140	0.8	23.1
Surrogate: Decachlorobiphenyl	*0.927*		*ug/L*	*1.00*		*93*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.443*		*ug/L*	*1.00*		*44*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*		
Surrogate: Dibromofluoromethane	*44.5*		*ug/L*	*50.0*		*89*	*83-118*		
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*98*	*91-109*		
LCS (B435190-BS1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:55					
1,1,1-Trichloroethane	40.1	10	ug/L	50.0		80	70-130		
1,1,2,2-Tetrachloroethane	53.9	10	ug/L	50.0		108	60-140		
1,1,2-Trichloroethane	47.1	10	ug/L	50.0		94	70-130		
1,1-Dichloroethane	40.6	10	ug/L	50.0		81	70-130		
1,1-Dichloroethylene	39.4	10	ug/L	50.0		79	50-150		
1,2-Dibromoethane	48.3	10	ug/L	50.0		97	71.6-124		
o-Dichlorobenzene	49.6	10	ug/L	50.0		99	65-135		
1,2-Dichloroethane	41.1	10	ug/L	50.0		82	70-130		
1,2-Dichloropropane	46.0	10	ug/L	50.0		92	35-165		
m-Dichlorobenzene	48.9	10	ug/L	50.0		98	70-130		
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		
p-Dichlorobenzene	48.0	10	ug/L	50.0		96	65-135		
2-Chloroethyl Vinyl Ether	43.4	10	ug/L	50.0		87	1-225		
Acrolein	37.9	50	ug/L	50.0		76	60-140		
Acrylonitrile	37.7	50	ug/L	50.0		75	60-140		
Benzene	40.0	10	ug/L	50.0		80	65-135		

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS (B435190-BS1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:55					
Dichlorobromomethane [Bromodichloromethane]	45.2	10	ug/L	50.0		90	65-135		
Bromoform	45.5	10	ug/L	50.0		91	70-130		
Methyl Bromide	39.0	50	ug/L	50.0		78	15-185		
Carbon Tetrachloride	39.3	2	ug/L	50.0		79	70-130		
Chlorobenzene	47.4	10	ug/L	50.0		95	65-135		
Chloroethane	41.3	50	ug/L	50.0		83	40-160		
Chloroform	40.0	10	ug/L	50.0		80	70-135		
Methyl Chloride	44.3	50	ug/L	50.0		89	1-205		
Dibromochloromethane [Chlorodibromomethane]	45.8	10	ug/L	50.0		92	70-135		
Ethylbenzene	45.7	10	ug/L	50.0		91	60-140		
Methyl Ethyl Ketone (2-Butanone)	38.9	50	ug/L	50.0		78	56.5-136		
Dichloromethane [Methylene Chloride]	38.3	20	ug/L	50.0		77	60-140		
Tetrachloroethylene [Tetrachloroethene]	44.7	10	ug/L	50.0		89	70-130		
Toluene	42.4	10	ug/L	50.0		85	70-130		
trans-1,2-Dichloroethylene	39.6	10	ug/L	50.0		79	70-130		
Trichloroethylene [Trichloroethene]	45.8	10	ug/L	50.0		92	65-135		
Vinyl chloride [Chloroethene]	47.8	10	ug/L	50.0		96	5-195		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93*	*83-118*		
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96*	*91-109*		
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
1,1,1-Trichloroethane	42.5	10	ug/L	50.0		85	70-130	6	36
1,1,2,2-Tetrachloroethane	57.8	10	ug/L	50.0		116	60-140	7	61
1,1,2-Trichloroethane	49.7	10	ug/L	50.0		99	70-130	5	45
1,1-Dichloroethane	42.8	10	ug/L	50.0		86	70-130	5	40
1,1-Dichloroethylene	42.2	10	ug/L	50.0		84	50-150	7	32
1,2-Dibromoethane	51.9	10	ug/L	50.0		104	71.6-124	7	20.3
o-Dichlorobenzene	52.7	10	ug/L	50.0		105	65-135	6	57
1,2-Dichloroethane	44.2	10	ug/L	50.0		88	70-130	7	49
1,2-Dichloropropane	48.8	10	ug/L	50.0		98	35-165	6	55
m-Dichlorobenzene	51.9	10	ug/L	50.0		104	70-130	6	43
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		200

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
p-Dichlorobenzene	51.3	10	ug/L	50.0		103	65-135	7	57
2-Chloroethyl Vinyl Ether	46.5	10	ug/L	50.0		93	1-225	7	71
Acrolein	42.6	50	ug/L	50.0		85	60-140	12	60
Acrylonitrile	41.1	50	ug/L	50.0		82	60-140	9	60
Benzene	43.1	10	ug/L	50.0		86	65-135	7	61
Dichlorobromomethane [Bromodichloromethane]	47.6	10	ug/L	50.0		95	65-135	5	56
Bromoform	48.7	10	ug/L	50.0		97	70-130	7	42
Methyl Bromide	42.4	50	ug/L	50.0		85	15-185	8	61
Carbon Tetrachloride	42.4	2	ug/L	50.0		85	70-130	8	41
Chlorobenzene	50.1	10	ug/L	50.0		100	65-135	5	53
Chloroethane	43.4	50	ug/L	50.0		87	40-160	5	78
Chloroform	42.5	10	ug/L	50.0		85	70-135	6	54
Methyl Chloride	46.2	50	ug/L	50.0		92	1-205	4	60
Dibromochloromethane [Chlorodibromomethane]	49.2	10	ug/L	50.0		98	70-135	7	50
Ethylbenzene	48.2	10	ug/L	50.0		96	60-140	5	63
Methyl Ethyl Ketone (2-Butanone)	40.8	50	ug/L	50.0		82	56.5-136	5	30.7
Dichloromethane [Methylene Chloride]	41.0	20	ug/L	50.0		82	60-140	7	28
Tetrachloroethylene [Tetrachloroethene]	40.9	10	ug/L	50.0		82	70-130	9	39
Toluene	44.9	10	ug/L	50.0		90	70-130	6	41
trans-1,2-Dichloroethylene	42.3	10	ug/L	50.0		85	70-130	7	45
Trichloroethylene [Trichloroethene]	48.0	10	ug/L	50.0		96	65-135	5	48
Vinyl chloride [Chloroethene]	50.8	10	ug/L	50.0		102	5-195	6	66
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*91-109*		

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					

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Report No. 2408134

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*44.5*		*ug/L*	*50.0*		*89*	*81.2-126*		
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*98*	*87.4-109*		
LCS (B435190-BS1)				Prepared: 08/21/24 08:30			Analyzed: 08/21/24 09:55		
Dichlorobromomethane [Bromodichloromethane]	45.2	2.50	ug/L	50.0		90	80-120		
Bromoform	45.5	2.50	ug/L	50.0		91	80-120		
Chloroform	40.0	2.50	ug/L	50.0		80	80-120		
Dibromochloromethane [Chlorodibromomethane]	45.8	2.50	ug/L	50.0		92	80-120		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93*	*81.2-126*		
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96*	*87.4-109*		
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30			Analyzed: 08/21/24 10:22		
Dichlorobromomethane [Bromodichloromethane]	47.6	2.50	ug/L	50.0		95	80-120	5	20
Bromoform	48.7	2.50	ug/L	50.0		97	80-120	7	20
Chloroform	42.5	2.50	ug/L	50.0		85	80-120	6	20
Dibromochloromethane [Chlorodibromomethane]	49.2	2.50	ug/L	50.0		98	80-120	7	20
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*87.4-109*		

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Additional Notes:

This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408134

SAMPLE QUALIFIERS

Z	Fluoride Results 1.18 mg/L
P2	Samples received at pH<2
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2408134-01	CN_Sub
Eurofins - Pittsburgh	2408134-01	Color_SUB

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: OO1 PP (Week4)

Reported:
12/19/24 17:17
Received:
08/07/24 15:25

Report No. 2408134

Additional Notes:

This supersedes the last report (2408134_1 1-SATL1 08 30 24 0832) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2408134
ADDRESS: 12940 US HWY 1815	ADDRESS:	
CITY: SA STATE: Tx ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #: 210-213-7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB 001 PP (week 4)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐

Field: pH:_____; Temp:_____°C; LCS/D:_____/_____; Dup:_____

PROJECT NO.:

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO

INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO AUTHORIZE TO PROCEED _____
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____

SAMPLED BY: Isaac Dotray

OBSERVED TEMP. 2.5C / CORRECTED TEMP. 2.5C / TEMP. I.R. GUN # 7 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	NON-POTABLE WATER	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 608.1A / TCLP / SPLP / Total	P.P. (See Attachment)	PRESERVED WITH: FOH	3 0ZH2	HO4	4 0Z H2	3 0Z NaOH	2 0Z NaS2O3	2 AmL-10	2 0Z	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	VOA AIR BUBBLES	REMARKS
	8-7-24	1305		X								X			VHB 001	25	1169	5mL										X		XX	X	X	X	X	X					

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
	8-7-24 1525		8-7-24				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Isaac Dotray		Hannah Thorpe	1525				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO: Eurofins - Ft Hs.	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Priority Pollutants

Worksheet 2.0 (Process Water Outfalls) 4 consecutive weeks of sampling	Table	Plant	Outfalls	Inlet
	1	CAL/VHB	External	Yes
	2	CAL/VHB	External	Yes
	3	CAL/VHB	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB	External	Yes
	8	CAL/VHB	External	Yes
	9	CAL/VHB	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Notes
Cyanide method OIA 1677
No E. coli sampling at VHB

NOTES
Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet
4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

Parameters Ordered from SAL — All except Fl2, use detection limit from permit applicables — Al & Se

Parameters Order from Alpha — Sb, Hg, Al & Se

Test America — Cn

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____
(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): _____

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** _____

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composite** ☒ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.: [redacted]

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO_3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] **: Volatile Compounds**

Samples are (check one): ☒ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: [redacted] : Acid Compounds

Samples are (check one): ☐ Composites ☒ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: [redacted] : Base/Neutral Compounds

Samples are (check one): ☒ Composites ☒ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: [redacted] : Pesticides

Samples are (check one): ☒ Composites ☒ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment:

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 60-61)

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

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

Description:

b. Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

☐ Yes ☐ No

Description:

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

Table 12 for Outfall No.:

Samples are (check one): ☐ Composites ☐ Grabs

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 is required for all external outfalls as directed below. (Instructions, Page 61)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Table 13 for Outfall No.:

Samples are (check one): ☐ Composites ☐ Grabs

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

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: OO1 PP (Week4)**

Report To:

Chelsey Vasbinder

SATL Report Number: 2408134

Work Order Due by:	08/16/24 17:00 (7 day TAT)		
Received By:	Hannah Thigpen	Date Received:	08/07/24 15:25
Logged In By:	Aimee Landon	Date Logged In:	08/07/24 15:39

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*2.3°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *08/07/24 15:25*

SATL#FO001
Revised 09/15/2022

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
Phone (210) 229-9920
Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: Targa Resources	COMPANY: Targa Resources	REPORT NUMBER: 2408141
ADDRESS: PO Box 11	ADDRESS: PO Box 11	
CITY: Pettus STATE: Texas ZIP: 78146	CITY: Pettus STATE: Texas ZIP: 78146	E-MAIL: jtrueger@targaresources.com
ATTN: David Krueger PHONE #: 361-645-9400	ATTN: David Krueger PHONE #: 361-645-9400	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☑ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: Raptor Gas Plant

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☑ Field: pH:____; Temp:____ °C; LCS/D:____/____; Dup:____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☑ YES ☐ NO
PROPER CONTAINERS ☑ YES ☐ NO
INSUFFICIENT SAMPLE AMOUNT FOR (TCLP/SPLP/OTHER): IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS ____ ☐ YES ☐ NO AUTHORIZE TO PROCEED____

SAMPLED BY: David Krueger

OBSERVED TEMP. 4.3C / CORRECTED TEMP. 4.3C / TEMP. I.D. GUN #7 / SAMPLE ICED ☑ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ LPST PCLS ☐ LOW LEVEL ☐ PST ☐ SIM ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED: DATE	COLLECTED: TIME	DRINKING WATER	NON-POTABLE WATER	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005(TX)006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625 / TCLP / SPLP / Total	VOC / 8260 / 624 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	PCB / 608 / 8082A	OC Pest / 608 / 8081A / TCLP / SPLP / Total	PRESERVED WITH: HCl / H2SO4 / HNO3 / NaOH / ZnAc+NaOH / NaHSO4 / MeOH	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	REMARKS
1	8/7/2024	8:55 am						X				✓			Refridgeration Area Contaminated Soil	1	8oz	8oz	✓	X									X					

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☐ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

AUG 07 2024

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: TARGA Resources	**Project Manager: Aimee Landon**
Project: Raptor Gas Plant	**Project Number: [none]**

Report To:

David Krueger

SATL Report Number: 2408141

Work Order Due by:	08/16/24 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	08/07/24 16:41
Logged In By:	Aimee Landon	Date Logged In:	08/07/24 16:50

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*4.3°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*No*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*Notated on CoC, if any*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *08/07/24 16:41*

SATL#FO001
Revised 09/15/2022

2408142

RABA-KISTNER CONSULTANTS, INC.

12821 W Golden Lane - San Antonio, Texas 78249
FAX: (210) 699-6426
Phone: (210) 699-9090

Chain of Custody Record and Analysis Request

Lab Name	Address	phone	Fax
San Antonio Testing	1610 S. Laredo	210-699-9090	210-699-6426

Site Location	Project Number	P.O Number	Report Results to:
Lower French Creek	ASF22-027-A4 (COSA)		rklar@rkci.com

R-KCI #	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	AMOUNT SAMPLED	Matrix: Water	Matrix: Soil	Preservative: Ice	Texas -11 metals	VOC's	TPH	SPLP	TCLP	PCB's	Chloro herbicides	Organochloro pest
1	TR-1 (0-5')	07Aug24	0900	16 oz		X	X	X	X	X					
2	TR-1 (5'-6')	07Aug24	0920	16 oz		X	X								
3	TR-2 (0-5')	07Aug24	0930	16 oz		X	X	X	X	X					
4	TR-2 (5'-10')	07Aug24	0950	16 oz		X	X								
5	TR-3 (0-5')	07Aug24	1010	16 oz		X	X	X	X	X					
6	TR-3 (5'-10')	07Aug24	1030	16 oz		X	X								
7	TR-4 (0-5')	06Aug24	1000	16 oz		X	X	X	X	X					
8	TR-4 (5'-9')	06Aug24	1035	16 oz		X	X	X	X	X					
9	TR-5 (0-5')	06Aug24	0835	16 oz		X	X	X	X	X					
10	TR-5 (5'-10')	06Aug24	0855	16 oz		X	X	X	X	X					
11	TR-6 (0-5')	06Aug24	0915	16 oz		X	X	X	X	X					
12	TR-6 (5'-10')	06Aug24	0925	16 oz		X	X								
13	TR-7 (0-5')	06Aug24	0800	16 oz		X	X	X	X	X					
14	TR-7 (5'-10')	06Aug24	0810	16 oz		X	X	X	X	X					
15	TR-8 (0-5')	07Aug24	1050	16 oz		X	X	X	X	X					
16	TR-8 (5'-10')	07Aug24	1110	16 oz		X	X								
17	TR-9 (0-5')	07Aug24	0935	16 oz		X	X	X	X	X					
18	TR-9 (5'-10')	07Aug24	0735	16 oz		X	X	X	X	X					
19	TR-10 (0-5')	07Aug24	0930	16 oz		X	X	X	X	X					
20	TR-10 (5'-6')	07Aug24	0850.	16 oz		X	X								
				1202											

ANALYSIS REQUESTED

CUSTODY RECORD

Received By: Hayden Thompson — Time: 16:47 — Date: 08 Aug 24
Received By: — Time: — Date:
Received By: — Time: — Date:
Relinquished By: Rick Sayles
Relinquished By:

TURNAROUND TIME REQUESTED

PUSH 1 day
PUSH 2 day
PUSH 3 day
Standard 5 day XXX
PROVIDE RESULTS BY:

SPECIFY

Special detection limits: TRRP Reporting Limits

Special reporting requirements:

COMMENTS: Temp: 4.1C/4.1C - TG#7 Bulk jars

Sample Receipt Report

Samples OK	Y	N
Temp 4 C Min	Y	N
Custody Seals Intact	Y	N
Head Space in VOA	Y	N
PH adjusted	Y	N

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: Raba-Kistner Consultants, Inc.	**Project Manager: Marissa Esquivel**
Project: Lower French Creek	**Project Number: ASF2-027-A4 (COSA)**

Report To:

Rick Klar

SATL Report Number: 2408142

Work Order Due by:	08/14/24 17:00 (5 day TAT)		
Received By:	Aimee Landon	Date Received:	08/07/24 16:47
Logged In By:	Aimee Landon	Date Logged In:	08/07/24 17:15

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*4.1°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*No*
RUSH turnaround time requested:	*Yes*
Requested Turnaround Time:	*5 Business days*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *08/07/24 16:47*

SATL#FO001
Revised 09/15/2022

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

Generated 8/12/2024 8:23:25 AM

JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-178143-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

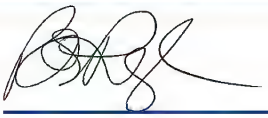
Job Notes

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

PA Lab ID: 02-00416

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

Authorization



Generated
8/12/2024 8:23:25 AM

Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job ID: 180-178143-1 — Eurofins Pittsburgh

Job Narrative
180-178143-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 8/8/2024 10:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-178143-1	2408134-01 (VHB 001)	Water	08/07/24 13:05	08/08/24 10:12

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Client Sample ID: 2408134-01 (VHB 001)
Lab Sample ID: 180-178143-1

Date Collected: 08/07/24 13:05
Matrix: Water
Date Received: 08/08/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	476280	08/09/24 08:11	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			476340	08/09/24 13:59	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

Client Sample ID: 2408134-01 (VHB 001)
Lab Sample ID: 180-178143-1
Date Collected: 08/07/24 13:05
Matrix: Water
Date Received: 08/08/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			08/09/24 08:11	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			08/09/24 08:11	1
pH at time of analysis (SM 2120B-2011)	**9.6**		0.10	0.10	SU			08/09/24 08:11	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			08/09/24 13:59	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-178143-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-476280/1
Matrix: Water
Analysis Batch: 476280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			08/09/24 08:06	1
Color, True	ND		5.0	5.0	Color Units			08/09/24 08:06	1
pH at time of analysis	NA		0.10	0.10	SU			08/09/24 08:06	1

Lab Sample ID: 180-178143-1 DU
Matrix: Water
Analysis Batch: 476280

Client Sample ID: 2408134-01 (VHB 001)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color, Apparent	35		35.0		Color Units		0	20
Color, True	10		10.0		Color Units		0	20
pH at time of analysis	9.6		9.64		SU		0	

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-476340/62
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 13:42	1

Lab Sample ID: MB 180-476340/84
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 14:15	1

Lab Sample ID: LCS 180-476340/63
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	50.5		ug/L		101	82 - 132

Lab Sample ID: LCSD 180-476340/86
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Available	50.1	50.9		ug/L		102	82 - 132	2	20

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178143-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 476280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-178143-1	2408134-01 (VHB 001)	Total/NA	Water	2120B-2011	
MB 180-476280/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-476280/2	Lab Control Sample	Total/NA	Water	2120B-2011	
180-178143-1 DU	2408134-01 (VHB 001)	Total/NA	Water	2120B-2011	

Analysis Batch: 476340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-178143-1	2408134-01 (VHB 001)	Total/NA	Water	OIA - 1677	
MB 180-476340/62	Method Blank	Total/NA	Water	OIA - 1677	
MB 180-476340/84	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-476340/63	Lab Control Sample	Total/NA	Water	OIA - 1677	
LCSD 180-476340/86	Lab Control Sample Dup	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SATL	COMPANY SATL	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN: Aimee Landon PHONE: 210-229-9920	ATTN: Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☐ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH._____; Temp:_____ °C; LCS/D._____|_____, Dup:_____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☐ YES ☐ NO PROPER CONTAINERS INTACT ☐ YES ☐ NO INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ☐ YES ☐ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____ AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #____ / SAMPLE ICED ☐ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

| SAMPLE NUMBER | COLLECTED DATE | COLLECTED TIME | DRINKING WATER | LIQUID | PAINT CHIPS | OIL | ORGANIC LIQUID | SOLID/SLUDGE | WIPE | OTHER | COMPOSITE | GRAB | CORE | OTHER | SAMPLE IDENTIFICATION | NUMBER OF CONTAINERS | SAMPLE AMOUNT | CONTAINER SIZE | BTEX/MTBE 8260 / TPH TX1005/TX1006 | Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total | PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total | VOC / 8260 / 624.1 / TCLP / SPLP / Total | Water Quality - Drinking / Livestock / Irrigation | Coli / TC / FC / HPC / EColi / Enterococci / C-Tray | Br / Cl / F / NO3 / NO2/O-P / SO4 | Herb 8151A | PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total | C,N - Available 01A467 Lab: eLaboratories 24083011 | | |

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-178143-1

Login Number: 178143

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

December 19, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2408133
RE: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 08/07/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:

This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB Inlet	2408133-01	Liquid	Grab	08/07/24 09:55	08/07/24 15:25

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2408133-01**

Sample Matrix: Liquid | **Date/Time Collected: 08/07/24 09:55**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	19.0	mg/L	0.10	SM 5310C	B433175	08/10/24 12:04	SM5310C	DD	
Total Alkalinity *	392	mg/L as CaCO3	20.0	SM2320B	B434200	08/16/24 12:20	SM2320B	JA	
Ammonia-Nitrogen *	4.48	mg/L	1.00	SM4500NH3B	B434190	08/16/24 17:10	SM4500NH3C	SG	
Total Kjeldahl Nitrogen *	3.92	mg/L	1.00	EPA 351.3	B434182	08/19/24 15:40	EPA 351.3	SG	
Total Organic Nitrogen	<1.00	mg/L	1.00	[CALC]	[CALC]	08/19/24 15:40	CALC	SG	
Sulfide *	<100	ug/L	100	EPA 376.2	B433368	08/12/24 13:10	SM4500-S2	JA	
MBAS, calculated as LAS, mol wt (288	<200	ug/L	200	SM5540 C	B433367	08/08/24 16:00	SM5540C	SG	
Total Dissolved Solids *	1320	mg/L	8.33	SM2540C	B432305	08/14/24 09:00	SM2540C	DD	
Total Suspended Solids *	<8.33	mg/L	8.33	SM2540D	B433271	08/13/24 12:10	SM2540D	DD	
COD *	64.8	mg/L	5.00	H8000	B433332	08/15/24 16:31	H8000	DD	
pH *	9.40	pH Units	0.01	SM4500HB	B432292	08/08/24 09:16	SM4500HB	JA	H
pH measured @Temperature >>	61.5	°F	0.100	SM4500HB	B432292	08/08/24 09:16	SM2550B	JA	H
BOD-5 *	4.87	mg/L	2.00	SM5210B	B433250	08/13/24 15:43	SM5210B	DD	
CBOD *	2.99	mg/L	2.00	SM5210B	B433252	08/13/24 08:38	SM5210B	DD	
Dissolved Oxygen *	9.14	mg/L	2.00	EPA 360.1	B433217	08/09/24 09:05	SM4500-O G	DD	
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B433245	08/13/24 15:17	EPA 1664A	DD	
Sulfite *	<1000	ug/L	1000	SM4500-SO3(B)	B433365	08/16/24 14:22	EPA 377.1	SG	
Hexavalent Chromium *	<3	ug/L	3	I-1230-85	B433369	08/08/24 12:40	I-1230-85	SG	
Residual Chlorine *	<0.01	mg/L	0.01	SM4500ClG	B432300	08/16/24 08:35	SM4500ClG	JA	
Total Phosphorous *	0.55	mg/L	0.05	EPA 365.3	B434199	08/16/24 18:50	EPA 365.3	JA	
Anions by Ion Chromatography									
Fluoride *	1190	ug/L	500	EPA 300.0	B432295	08/08/24 03:19	EPA 300.0	JA	Z
Chloride *	619	mg/L	5.00	EPA 300.0	B432295	08/08/24 12:47	EPA 300.0	JA	
Nitrite as N *	<100	ug/L	100	EPA 300.0	B432295	08/08/24 03:19	EPA 300.0	JA	
Bromide *	8760	ug/L	400	EPA 300.0	B432295	08/08/24 03:19	EPA 300.0	JA	
Nitrate as N *	0.346	mg/L	0.100	EPA 300.0	B432295	08/08/24 03:19	EPA 300.0	JA	
Sulfate *	144	mg/L	5.00	EPA 300.0	B432295	08/08/24 12:47	EPA 300.0	JA	
Nitrate/Nitrite as Nitrogen	0.3460	mg/L	0.2000	[CALC]	[CALC]	08/08/24 03:19	EPA 300.0	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2408133-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 09:55**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Total Metals By ICP-MS									**P2**
Aluminum *	16	ug/L	2	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Antimony *	<5	ug/L	5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Barium *	51	ug/L	3	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Beryllium *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Boron *	988	ug/L	20	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Cobalt *	0.4	ug/L	0.3	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Copper *	4	ug/L	2	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Iron *	233	ug/L	7	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Lead *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Magnesium *	50600	ug/L	20	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Manganese *	6	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Molybdenum *	4	ug/L	1	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Nickel *	6	ug/L	2	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Thallium *	<0.5	ug/L	0.5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Tin *	6	ug/L	5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Titanium *	<30	ug/L	30	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Zinc *	16	ug/L	5	EPA 200.8	B433278	08/15/24 17:19	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	08/15/24 17:19	CALC	SG	
Semivolatile Organic Compounds by GC/MS									
1,2,4,5-Tetrachlorobenzene *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2,4,5-Trichlorophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2,4,6-Trichlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2,4-Dichlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2,4-Dimethylphenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2,4-Dinitrophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	CH
2-Chlorophenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
o-Cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
2-Nitrophenol *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	CH
3,3´-Dichlorobenzidine	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
m-Cresol & p-Cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
4,6-Dinitro-o-cresol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	CH
p-Chloro-m-cresol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
4-Nitrophenol *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Anthracene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2408133-01**

Sample Matrix: Liquid | **Date/Time Collected: 08/07/24 09:55**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS									
Benz(a)anthracene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Benzidine *	<50	ug/L	50	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Benzo(a)pyrene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Bis(2-Chloroethyl)ether *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	CL
Bis(2-Ethylhexyl)phthalate *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Chrysene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Di-n-butylphthalate *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Hexachlorobenzene *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Hexachlorobutadiene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Hexachlorocyclopentadiene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Hexachloroethane *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Nitrobenzene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
N-Nitrosodiethylamine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
N-Nitrosodi-n-butylamine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Pentachlorobenzene *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Pentachlorophenol *	<5	ug/L	5	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Phenanthrene *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Phenol *	<10	ug/L	10	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Pyridine *	<20	ug/L	20	EPA 3510C	B433340	08/16/24 16:00	EPA 625.1	ME	
Surrogate: 2,4,6-Tribromophenol	*81 %*	*18.3-110*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorobiphenyl	*60 %*	*15.6-80.4*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	
Surrogate: 2-Fluorophenol	*46 %*	*2.8-70.6*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	
Surrogate: Nitrobenzene-d5	*59 %*	*8.98-84*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	
Surrogate: Phenol-d5	*39 %*	*1.11-63.5*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	
Surrogate: Terphenyl-d14	*86 %*	*8.46-114*		*EPA 3510C*	*B433340*	*08/16/24 16:00*	*EPA 625.1*	*ME*	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:

This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Sample ID #: VHB Inlet **Sampling Method: Grab** **Lab Sample ID #: 2408133-01**

Sample Matrix: Liquid **Date/Time Collected: 08/07/24 09:55**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Semivolatile Organic Compounds by GC/MS (Nonylphenol)									
Nonylphenol	<333	ug/L	333	ASTM D7065-11	B433339	08/16/24 16:00	ASTM D7065	ME	
Surrogate: 2,4,6-Tribromophenol	*79 %*		*5-89.9*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorobiphenyl	*59 %*		*27-111*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Surrogate: Phenol-d5	*34 %*		*5-64.3*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Surrogate: 2-Fluorophenol	*38 %*		*5-64.3*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Surrogate: Terphenyl-d14	*80 %*		*5-114*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Surrogate: Nitrobenzene-d5	*49 %*		*22-117*	*ASTM D7065-11*	*B433339*	*08/16/24 16:00*	*ASTM D7065*	*ME*	
Polychlorinated Biphenyls [PCB]									
PCB 1016	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1221	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1232	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1242	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1248	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1254	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
PCB 1260	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
Total PCBs	<0.2	ug/L	0.2	EPA 608.3	B434179	08/20/24 13:33	EPA 608.3	MF	
Surrogate: Decachlorobiphenyl	*76 %*		*15.3-112*	*EPA 608.3*	*B434179*	*08/20/24 13:33*	*EPA 608.3*	*MF*	
Surrogate: Tetrachloro-meta-xylene	*45 %*		*10.2-92.4*	*EPA 608.3*	*B434179*	*08/20/24 13:33*	*EPA 608.3*	*MF*	
Volatile Organic Compounds by GC/MS									**Za**
1,1,1-Trichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,1,2,2-Tetrachloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,1,2-Trichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,1-Dichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,1-Dichloroethylene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,2-Dibromoethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
o-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,2-Dichloroethane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,2-Dichloropropane *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
m-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
1,3-Dichloropropylene [1,3-Dichloropr	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
p-Dichlorobenzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
2-Chloroethyl Vinyl Ether *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Acrolein *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Acrylonitrile *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Benzene *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Dichlorobromomethane [Bromodichlor	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Bromoform *	<10	ug/L	10	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Methyl Bromide *	<50	ug/L	50	EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Sample ID #: VHB Inlet | **Sampling Method: Grab** | **Lab Sample ID #: 2408133-01**

Sample Matrix: Liquid | **Date/Time Collected: 08/07/24 09:55**

Analyte	Result	Units	PQL		Prep Method	Batch	Analyzed	Method	Analyst	Notes
Volatile Organic Compounds by GC/MS										**Za**
Carbon Tetrachloride *	<2	ug/L	2		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Chlorobenzene *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Chloroethane *	<50	ug/L	50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Chloroform *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Methyl Chloride *	<50	ug/L	50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Ethylbenzene *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Methyl Ethyl Ketone (2-Butanone) *	<50	ug/L	50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Dichloromethane [Methylene Chloride]	<20	ug/L	20		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Tetrachloroethylene [Tetrachloroethene]	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Toluene *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
trans-1,2-Dichloroethylene *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Trichloroethylene [Trichloroethene] *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Vinyl chloride [Chloroethene] *	<10	ug/L	10		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene		*%*	*80-106*		*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane		*%*	*83-118*		*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8		*68 %*	*91-109*	*SurrL*	*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	
Total Trihalomethanes by GC/MS										**Za**
Dichlorobromomethane [Bromodichlor(	<2.50	ug/L	2.50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Bromoform *	<2.50	ug/L	2.50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Chloroform *	<2.50	ug/L	2.50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Dibromochloromethane [Chlorodibrom(	<2.50	ug/L	2.50		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0		EPA 624.1	B435190	08/21/24 18:22	EPA 624.1	ME	
Total Trihalomethanes *	<10.0	ug/L	10.0		[CALC]	[CALC]	08/21/24 18:22	EPA 624.1	ME	
Surrogate: 4-Bromofluorobenzene		*%*	*65.7-120*		*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	
Surrogate: Dibromofluoromethane		*%*	*81.2-126*		*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	
Surrogate: Toluene-d8		*68 %*	*87.4-109*	*SurrL*	*EPA 624.1*	*B435190*	*08/21/24 18:22*	*EPA 624.1*	*ME*	

CPS Energy - Environmental Dept.
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San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432292 - SM4500HB										
LCS (B432292-BS1)				Prepared: 08/08/24 09:00		Analyzed: 08/08/24 09:10				
pH	7.05	0.01	pH Units	7.00		101	97.5-102.5			
pH measured @Temperature >>	20.0	0.100	°F				0-200			
Duplicate (B432292-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 09:00		Analyzed: 08/08/24 09:20				
pH	9.47	0.01	pH Units		9.43			0.4	20	H
pH measured @Temperature >>	16.4	0.100	°F		61.5			116	30	H S
Duplicate (B432292-DUP2)		**Source: 2408119-02**		Prepared: 08/08/24 09:00		Analyzed: 08/09/24 11:38				
pH	1.20	0.01	pH Units		1.21			0.8	20	H
pH measured @Temperature >>	20.6	0.100	°F		20.6			0	30	H
Batch B432300 - SM4500ClG										
Blank (B432300-BLK1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B432300-BS1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	0.247	0.01	mg/L	0.250		99	80-120			
LCS Dup (B432300-BSD1)				Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:20				
Residual Chlorine	0.251	0.01	mg/L	0.250		100	80-120	2	20	
Duplicate (B432300-DUP1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.0280	0.01	mg/L		0.0340			19	20	
Matrix Spike (B432300-MS1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.137	0.01	mg/L	0.250	0.0340	41	80-120			M
Matrix Spike Dup (B432300-MSD1)		**Source: 2408124-01**		Prepared: 08/08/24 08:15		Analyzed: 08/16/24 08:45				
Residual Chlorine	0.134	0.01	mg/L	0.250	0.0340	40	80-120	2	20	M
Batch B432305 - SM2540C										
Blank (B432305-BLK1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:40				
Total Dissolved Solids	<2.50	2.50	mg/L							
LCS (B432305-BS1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:41				
Total Dissolved Solids	84.0	2.50	mg/L	100		84	80-120			
LCS Dup (B432305-BSD1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:42				

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Additional Notes:
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Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432305 - SM2540C										
LCS Dup (B432305-BSD1)				Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:42				
Total Dissolved Solids	81.0	2.50	mg/L	100		81	80-120	4	20	
Duplicate (B432305-DUP1)		**Source: 2408105-02**		Prepared: 08/13/24 10:00		Analyzed: 08/14/24 12:43				
Total Dissolved Solids	1070	83.3	mg/L		967			10	20	
Batch B433175 - SM 5310C										
Blank (B433175-BLK1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 13:39				
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B433175-BS1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 14:06				
Total Organic Carbon	4.09	0.10	mg/L	5.00		82	80-120			
LCS Dup (B433175-BSD1)				Prepared: 08/09/24 08:00		Analyzed: 08/09/24 14:32				
Total Organic Carbon	4.33	0.10	mg/L	5.00		87	80-120	6	20	
Duplicate (B433175-DUP1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 20:03				
Total Organic Carbon	14.6	0.10	mg/L		14.4			1	20	
Matrix Spike (B433175-MS1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 20:35				
Total Organic Carbon	14.8	0.10	mg/L	5.00	14.4	9	70-130			M
Matrix Spike Dup (B433175-MSD1)		**Source: 2408124-01**		Prepared: 08/09/24 08:00		Analyzed: 08/09/24 21:34				
Total Organic Carbon	14.8	0.10	mg/L	5.00	14.4	7	70-130	0.5	20	M
Batch B433217 - EPA 360.1										
Duplicate (B433217-DUP1)		**Source: 2408121-01**		Prepared: 08/09/24 09:00		Analyzed: 08/09/24 09:08				
Dissolved Oxygen	8.10	2.00	mg/L		8.11			0.1	20	
Batch B433245 - EPA 1664A										
Blank (B433245-BLK1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:00				
Oil & Grease (HEM)	<4.75	4.75	mg/L							
LCS (B433245-BS1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:01				
Oil & Grease (HEM)	32.4	4.75	mg/L	40.0		81	78-114			
LCS Dup (B433245-BSD1)				Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:02				
Oil & Grease (HEM)	32.9	4.75	mg/L	40.0		82	78-114	2	18	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

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12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433245 - EPA 1664A									
Matrix Spike (B433245-MS1)		**Source: 2408121-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:03			
Oil & Grease (HEM)	34.5	4.80	mg/L	40.4	<4.80	86	78-114		
Matrix Spike (B433245-MS2)		**Source: 2408122-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:04			
Oil & Grease (HEM)	38.8	4.75	mg/L	40.0	<4.75	97	78-114		
Matrix Spike (B433245-MS3)		**Source: 2408123-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:05			
Oil & Grease (HEM)	39.9	4.75	mg/L	40.0	<4.75	100	78-114		
Matrix Spike (B433245-MS4)		**Source: 2408124-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:06			
Oil & Grease (HEM)	35.5	4.75	mg/L	40.0	<4.75	89	78-114		
Matrix Spike (B433245-MS5)		**Source: 2408133-01**		Prepared: 08/13/24 11:00		Analyzed: 08/13/24 15:07			
Oil & Grease (HEM)	34.4	4.75	mg/L	40.0	<4.75	86	78-114		
Batch B433250 - SM5210B									
Blank (B433250-BLK1)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:30			
BOD-5	<2.00	2.00	mg/L						
LCS (B433250-BS1)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:31			
BOD-5	197	2.00	mg/L	200		98	80-120		
LCS (B433250-BS2)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:32			
BOD-5	221	2.00	mg/L	200		110	80-120		
LCS (B433250-BS3)				Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:33			
BOD-5	212	2.00	mg/L	200		106	80-120		
Duplicate (B433250-DUP1)		**Source: 2408115-01**		Prepared: 08/08/24 08:30		Analyzed: 08/13/24 15:34			
BOD-5	57.0	2.00	mg/L		56.6			0.7	20
Batch B433252 - SM5210B									
Blank (B433252-BLK1)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:00			
CBOD	<2.00	2.00	mg/L						
LCS (B433252-BS1)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:01			
CBOD	197	2.00	mg/L	200		98	80-120		
LCS (B433252-BS2)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:02			

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Additional Notes:
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Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433252 - SM5210B									
LCS (B433252-BS2)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:02			
CBOD	221	2.00	mg/L	200		110	80-120		
LCS (B433252-BS3)				Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:03			
CBOD	212	2.00	mg/L	200		106	80-120		
Duplicate (B433252-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 09:00		Analyzed: 08/13/24 17:04			
CBOD	3.71	2.00	mg/L		3.32			11	20
Batch B433271 - SM2540D									
Blank (B433271-BLK1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:00			
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B433271-BS1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:01			
Total Suspended Solids	82.0	25.0	mg/L	100		82	80-120		
LCS Dup (B433271-BSD1)				Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:02			
Total Suspended Solids	89.0	25.0	mg/L	100		89	80-120	8	20
Duplicate (B433271-DUP1)		**Source: 2408078-10**		Prepared: 08/13/24 09:00		Analyzed: 08/13/24 12:03			
Total Suspended Solids	433	83.3	mg/L		527			19	20
Batch B433332 - H8000									
Blank (B433332-BLK1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:25			
COD	<5.00	5.00	mg/L						
LCS (B433332-BS1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:26			
COD	57.8	5.00	mg/L	50.0		116	80-120		
LCS Dup (B433332-BSD1)				Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:27			
COD	58.8	5.00	mg/L	50.0		118	80-120	2	20
Duplicate (B433332-DUP1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:28			
COD	69.4	5.00	mg/L		64.8			7	20
Matrix Spike (B433332-MS1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:29			
COD	120	5.00	mg/L	50.0	64.8	111	80-120		
Matrix Spike Dup (B433332-MSD1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:30			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433332 - H8000									
Matrix Spike Dup (B433332-MSD1)		**Source: 2408133-01**		Prepared: 08/15/24 13:00		Analyzed: 08/15/24 16:30			
COD	105	5.00	mg/L	50.0	64.8	80	80-120	14	20
Batch B433365 - SM4500-SO3(B)									
Blank (B433365-BLK1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:00			
Sulfite	<1000	1000	ug/L						
LCS (B433365-BS1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:05			
Sulfite	10000	1000	ug/L	10000		100	80-120		
LCS Dup (B433365-BSD1)				Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:08			
Sulfite	11000	1000	ug/L	10000		110	80-120	10	20
Duplicate (B433365-DUP1)		**Source: 2408121-01**		Prepared: 08/12/24 14:00		Analyzed: 08/16/24 14:28			
Sulfite	<1000	1000	ug/L		<1000				20
Batch B433367 - SM5540 C									
Blank (B433367-BLK1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L						
LCS (B433367-BS1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	255	200	ug/L	250		102	80-120		
LCS Dup (B433367-BSD1)				Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	255	200	ug/L	250		102	80-120	0	20
Duplicate (B433367-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 10:00		Analyzed: 08/08/24 16:00			
MBAS, calculated as LAS, mol wt (288)	<200	200	ug/L		<200				20
Batch B433368 - EPA 376.2									
Blank (B433368-BLK1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	<100	100	ug/L						
LCS (B433368-BS1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	91.0	100	ug/L	100		91	80-120		

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Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433368 - EPA 376.2									
LCS Dup (B433368-BSD1)				Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:00			
Sulfide	94.0	100	ug/L	100		94	80-120	3	20
Duplicate (B433368-DUP1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	<100	100	ug/L		<100				20
Matrix Spike (B433368-MS1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	88.0	100	ug/L	100	<100	88	70-130		
Matrix Spike Dup (B433368-MSD1)		**Source: 2408134-01**		Prepared: 08/12/24 12:00		Analyzed: 08/12/24 13:15			
Sulfide	86.0	100	ug/L	100	<100	86	70-130	2	30
Batch B433369 - I-1230-85									
Blank (B433369-BLK1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	<3	3	ug/L						
LCS (B433369-BS1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	440	3	ug/L	400		110	90-110		
LCS Dup (B433369-BSD1)				Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:30			
Hexavalent Chromium	410	3	ug/L	400		102	90-110	7	20
Duplicate (B433369-DUP1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	<3	3	ug/L		<3				20
Matrix Spike (B433369-MS1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	394	3	ug/L	400	<3	98	80-120		
Matrix Spike Dup (B433369-MSD1)		**Source: 2408134-01**		Prepared: 08/08/24 12:00		Analyzed: 08/08/24 12:45			
Hexavalent Chromium	385	3	ug/L	400	<3	96	80-120	2	20
Batch B434182 - EPA 351.3									
Blank (B434182-BLK1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:30			
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B434182-BS1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:31			
Total Kjeldahl Nitrogen	20.7	1.00	mg/L	20.0		104	80-120		
LCS Dup (B434182-BSD1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:32			

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Report No. 2408133

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B434182 - EPA 351.3									
LCS Dup (B434182-BSD1)				Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:32			
Total Kjeldahl Nitrogen	21.9	1.00	mg/L	20.0		109	80-120	5	20
Duplicate (B434182-DUP1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:33			
Total Kjeldahl Nitrogen	4.48	1.00	mg/L		5.04			12	20
Matrix Spike (B434182-MS1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:34			
Total Kjeldahl Nitrogen	24.7	1.00	mg/L	20.0	5.04	98	80-120		
Matrix Spike Dup (B434182-MSD1)		**Source: 2408121-01**		Prepared: 08/16/24 09:30		Analyzed: 08/19/24 15:35			
Total Kjeldahl Nitrogen	24.1	1.00	mg/L	20.0	5.04	95	80-120	2	20
Batch B434190 - SM4500NH3B									
Blank (B434190-BLK1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:00			
Ammonia-Nitrogen	<1.00	1.00	mg/L						
LCS (B434190-BS1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:01			
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120		
LCS Dup (B434190-BSD1)				Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:02			
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120	0	20
Duplicate (B434190-DUP1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:03			
Ammonia-Nitrogen	1.12	1.00	mg/L		1.12			0	20
Matrix Spike (B434190-MS1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:04			
Ammonia-Nitrogen	24.1	1.00	mg/L	20.0	1.12	115	80-120		
Matrix Spike Dup (B434190-MSD1)		**Source: 2408122-01**		Prepared: 08/16/24 09:30		Analyzed: 08/16/24 17:05			
Ammonia-Nitrogen	21.9	1.00	mg/L	20.0	1.12	104	80-120	10	200
Batch B434199 - EPA 365.3									
Blank (B434199-BLK1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30			
Total Phosphorous	<0.05	0.05	mg/L						
LCS (B434199-BS1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30			
Total Phosphorous	0.466	0.05	mg/L	0.500		93	80-120		
LCS Dup (B434199-BSD1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30			

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B434199 - EPA 365.3										
LCS Dup (B434199-BSD1)				Prepared: 08/16/24 09:00		Analyzed: 08/16/24 18:30				
Total Phosphorous	0.475	0.05	mg/L	0.500		95	80-120	2	20	
Duplicate (B434199-DUP1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.543	0.05	mg/L		0.562			3	20	
Duplicate (B434199-DUP2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.490	0.05	mg/L		0.483			1	20	
Matrix Spike (B434199-MS1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.737	0.05	mg/L	0.500	0.562	35	80-120			M
Matrix Spike (B434199-MS2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.748	0.05	mg/L	0.500	0.483	53	80-120			M
Matrix Spike Dup (B434199-MSD1)		**Source: 2408121-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.749	0.05	mg/L	0.500	0.562	37	80-120	2	20	M
Matrix Spike Dup (B434199-MSD2)		**Source: 2408279-01**		Prepared: 08/16/24 09:00		Analyzed: 08/16/24 19:20				
Total Phosphorous	0.759	0.05	mg/L	0.500	0.483	55	80-120	1	20	M
Batch B434200 - SM2320B										
Blank (B434200-BLK1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 12:40				
Total Alkalinity	<20.0	20.0	mg/L as CaCO3							
LCS (B434200-BS1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 11:10				
Total Alkalinity	104	20.0	mg/L as CaCO3	100		104	80-120			
LCS Dup (B434200-BSD1)				Prepared: 08/16/24 11:00		Analyzed: 08/16/24 11:15				
Total Alkalinity	100	20.0	mg/L as CaCO3	100		100	80-120	4	20	
Duplicate (B434200-DUP1)		**Source: 2408133-01**		Prepared: 08/16/24 11:00		Analyzed: 08/16/24 12:50				
Total Alkalinity	388	20.0	mg/L as CaCO3		392			1	20	

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B432295 - EPA 300.0									
Blank (B432295-BLK1)				Prepared: 08/07/24 17:00 Analyzed: 08/07/24 17:29					
Fluoride	<500	500	ug/L						
Chloride	<0.100	0.100	mg/L						
Nitrite as N	<100	100	ug/L						
Bromide	<400	400	ug/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B432295-BS1)				Prepared: 08/07/24 17:00 Analyzed: 08/07/24 17:47					
Fluoride	996	500	ug/L	1000		100	90-110		
Chloride	5.22	0.100	mg/L	5.00		104	90-110		
Nitrite as N	4730	100	ug/L	5000		95	90-110		
Bromide	4620	400	ug/L	5000		92	90-110		
Nitrate as N	5.27	0.100	mg/L	5.00		105	90-110		
Sulfate	5.28	0.10	mg/L	5.00		106	90-110		
LCS Dup (B432295-BSD1)				Prepared: 08/07/24 17:00 Analyzed: 08/07/24 18:05					
Fluoride	993	500	ug/L	1000		99	90-110	0.4	20
Chloride	5.20	0.100	mg/L	5.00		104	90-110	0.4	20
Nitrite as N	4750	100	ug/L	5000		95	90-110	0.3	20
Bromide	4610	400	ug/L	5000		92	90-110	0.3	20
Nitrate as N	5.27	0.100	mg/L	5.00		105	90-110	0.009	20
Sulfate	5.10	0.10	mg/L	5.00		102	90-110	4	20
Duplicate (B432295-DUP1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00 Analyzed: 08/08/24 01:14					
Fluoride	1030	500	ug/L		1020			0.02	20
Chloride	511	5.00	mg/L		526			3	20
Nitrite as N	<100	100	ug/L		<100				20
Bromide	11800	400	ug/L		11800			0.3	20
Nitrate as N	0.0873	0.100	mg/L		0.0858			2	20
Sulfate	231	5.00	mg/L		234			1	20
Duplicate (B432295-DUP2)		**Source: 2408143-01**		Prepared: 08/07/24 17:00 Analyzed: 08/08/24 00:38					
Fluoride	4700	50000	ug/L		5290			12	20
Nitrite as N	<10000	10000	ug/L		<10000				20
Nitrate as N	1.56	10.00	mg/L		1.41			10	20
Sulfate	1500	10.0	mg/L		1510			0.3	20

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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B432295 - EPA 300.0										
Matrix Spike (B432295-MS1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 01:31				
Fluoride	1860	500	ug/L	1000	1020	84	80-120			
Chloride	283	0.100	mg/L	5.00	526	NR	80-120			M
Nitrite as N	4150	100	ug/L	5000	<100	83	80-120			
Bromide	16100	400	ug/L	5000	11800	87	80-120			
Nitrate as N	4.86	0.100	mg/L	5.00	0.0858	95	80-120			
Sulfate	325	0.10	mg/L	5.00	234	NR	80-120			M
Matrix Spike Dup (B432295-MSD1)		**Source: 2408121-01**		Prepared: 08/07/24 17:00		Analyzed: 08/08/24 01:49				
Fluoride	1860	500	ug/L	1000	1020	83	80-120	0.2	20	
Chloride	283	0.100	mg/L	5.00	526	NR	80-120	0.004	20	M
Nitrite as N	4160	100	ug/L	5000	<100	83	80-120	0.3	20	
Bromide	16100	400	ug/L	5000	11800	87	80-120	0.1	20	
Nitrate as N	4.85	0.100	mg/L	5.00	0.0858	95	80-120	0.1	20	
Sulfate	325	0.10	mg/L	5.00	234	NR	80-120	0.08	20	M

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
Blank (B433278-BLK1)				Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:25				
Aluminum	<2	2	ug/L							
Antimony	<5	5	ug/L							
Barium	<3	3	ug/L							
Beryllium	<0.5	0.5	ug/L							
Boron	<20	20	ug/L							
Cadmium	<1	1	ug/L							
Chromium	<3	3	ug/L							
Cobalt	<0.3	0.3	ug/L							
Copper	<2	2	ug/L							
Iron	<7	7	ug/L							
Lead	<0.5	0.5	ug/L							
Magnesium	<20	20	ug/L							
Manganese	<0.5	0.5	ug/L							

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Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
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Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433278 - EPA 200.8									
Blank (B433278-BLK1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:25					
Molybdenum	<1	1	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Thallium	<0.5	0.5	ug/L						
Tin	<5	5	ug/L						
Titanium	<30	30	ug/L						
Zinc	<5	5	ug/L						
LCS (B433278-BS1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:29					
Aluminum	977	2	ug/L	1000		98	85-115		
Antimony	103	5	ug/L	100		103	85-115		
Barium	101	3	ug/L	100		101	85-115		
Beryllium	99.4	0.5	ug/L	100		99	85-115		
Boron	105	20	ug/L	100		105	85-115		
Cadmium	97.5	1	ug/L	100		97	85-115		
Chromium	97.6	3	ug/L	100		98	85-115		
Cobalt	99.9	0.3	ug/L	100		100	85-115		
Copper	96.9	2	ug/L	100		97	85-115		
Iron	932	7	ug/L	1000		93	85-115		
Lead	91.2	0.5	ug/L	100		91	85-115		
Magnesium	1090	20	ug/L	1000		109	85-115		
Manganese	96.8	0.5	ug/L	100		97	85-115		
Molybdenum	96.4	1	ug/L	100		96	85-115		
Nickel	99.6	2	ug/L	100		100	85-115		
Silver	90.0	0.5	ug/L	100		90	85-115		
Thallium	86.0	0.5	ug/L	100		86	85-115		
Tin	101	5	ug/L	100		101	85-115		
Titanium	100	30	ug/L	100		100	85-115		
Zinc	99.7	5	ug/L	100		100	85-115		
LCS Dup (B433278-BSD1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:32					
Aluminum	1030	2	ug/L	1000		103	85-115	6	20
Antimony	104	5	ug/L	100		104	85-115	0.9	20
Barium	103	3	ug/L	100		103	85-115	2	20
Beryllium	106	0.5	ug/L	100		106	85-115	6	20
Boron	110	20	ug/L	100		110	85-115	5	20

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Report No. 2408133

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
LCS Dup (B433278-BSD1)				Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:32						
Cadmium	96.7	1	ug/L	100		97	85-115	0.8	20	
Chromium	104	3	ug/L	100		104	85-115	6	20	
Cobalt	104	0.3	ug/L	100		104	85-115	4	20	
Copper	100	2	ug/L	100		100	85-115	3	20	
Iron	985	7	ug/L	1000		99	85-115	5	20	
Lead	95.5	0.5	ug/L	100		95	85-115	5	20	
Magnesium	1140	20	ug/L	1000		114	85-115	4	20	
Manganese	101	0.5	ug/L	100		101	85-115	4	20	
Molybdenum	98.0	1	ug/L	100		98	85-115	2	20	
Nickel	104	2	ug/L	100		104	85-115	5	20	
Silver	91.3	0.5	ug/L	100		91	85-115	1	20	
Thallium	89.1	0.5	ug/L	100		89	85-115	4	20	
Tin	104	5	ug/L	100		104	85-115	2	20	
Titanium	107	30	ug/L	100		107	85-115	6	20	
Zinc	102	5	ug/L	100		102	85-115	2	20	
Duplicate (B433278-DUP1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:39						
Aluminum	17.5	2	ug/L		26.0			39	20	S
Antimony	<5	5	ug/L		<5				20	
Barium	41.7	3	ug/L		40.8			2	20	
Beryllium	0.0185	0.5	ug/L		0.0239			26	20	S
Boron	1000	20	ug/L		996			0.8	20	
Cadmium	0.0268	1	ug/L		0.0299			11	20	
Chromium	0.799	3	ug/L		0.825			3	20	
Cobalt	0.443	0.3	ug/L		0.429			3	20	
Copper	0.826	2	ug/L		0.825			0.08	20	
Iron	283	7	ug/L		272			4	20	
Lead	0.0884	0.5	ug/L		0.0892			0.9	20	
Magnesium	45300	20	ug/L		45500			0.4	20	
Manganese	8.85	0.5	ug/L		8.78			0.7	20	
Molybdenum	5.54	1	ug/L		5.71			3	20	
Nickel	6.92	2	ug/L		6.92			0.02	20	
Silver	<0.5	0.5	ug/L		0.0780				20	
Thallium	<0.5	0.5	ug/L		<0.5				20	
Tin	5.28	5	ug/L		5.68			7	20	
Titanium	2.34	30	ug/L		2.29			2	20	

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
Duplicate (B433278-DUP1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:39				
Zinc	21.7	5	ug/L		16.3			28	20	S
Matrix Spike (B433278-MS1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:43				
Aluminum	951	2	ug/L	1000	26.0	92	75-125			
Antimony	109	5	ug/L	100	<5	109	75-125			
Barium	145	3	ug/L	100	40.8	104	75-125			
Beryllium	89.6	0.5	ug/L	100	0.0239	90	75-125			
Boron	1060	20	ug/L	100	996	64	75-125			M
Cadmium	98.4	1	ug/L	100	0.0299	98	75-125			
Chromium	91.2	3	ug/L	100	0.825	90	75-125			
Cobalt	91.5	0.3	ug/L	100	0.429	91	75-125			
Copper	88.1	2	ug/L	100	0.825	87	75-125			
Iron	1090	7	ug/L	1000	272	82	75-125			
Lead	97.8	0.5	ug/L	100	0.0892	98	75-125			
Magnesium	44600	20	ug/L	1000	45500	NR	75-125			M
Manganese	94.3	0.5	ug/L	100	8.78	85	75-125			
Molybdenum	107	1	ug/L	100	5.71	102	75-125			
Nickel	94.7	2	ug/L	100	6.92	88	75-125			
Silver	97.9	0.5	ug/L	100	0.0780	98	75-125			
Thallium	96.5	0.5	ug/L	100	<0.5	96	75-125			
Tin	111	5	ug/L	100	5.68	105	75-125			
Titanium	95.2	30	ug/L	100	2.29	93	75-125			
Zinc	109	5	ug/L	100	16.3	92	75-125			
Matrix Spike Dup (B433278-MSD1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50		Analyzed: 08/15/24 16:46				
Aluminum	986	2	ug/L	1000	26.0	96	75-125	4	20	
Antimony	113	5	ug/L	100	<5	113	75-125	4	20	
Barium	150	3	ug/L	100	40.8	109	75-125	3	20	
Beryllium	93.6	0.5	ug/L	100	0.0239	94	75-125	4	20	
Boron	1060	20	ug/L	100	996	61	75-125	0.3	20	M
Cadmium	102	1	ug/L	100	0.0299	102	75-125	4	20	
Chromium	93.6	3	ug/L	100	0.825	93	75-125	3	20	
Cobalt	94.1	0.3	ug/L	100	0.429	94	75-125	3	20	
Copper	90.7	2	ug/L	100	0.825	90	75-125	3	20	
Iron	1140	7	ug/L	1000	272	87	75-125	4	20	
Lead	100	0.5	ug/L	100	0.0892	100	75-125	2	20	

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Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433278 - EPA 200.8										
Matrix Spike Dup (B433278-MSD1)		**Source: 2408121-01**		Prepared: 08/14/24 12:50 Analyzed: 08/15/24 16:46						
Magnesium	44800	20	ug/L	1000	45500	NR	75-125	0.5	20	M
Manganese	96.8	0.5	ug/L	100	8.78	88	75-125	3	20	
Molybdenum	112	1	ug/L	100	5.71	106	75-125	4	20	
Nickel	100	2	ug/L	100	6.92	93	75-125	6	20	
Silver	101	0.5	ug/L	100	0.0780	101	75-125	3	20	
Thallium	100	0.5	ug/L	100	<0.5	100	75-125	4	20	
Tin	113	5	ug/L	100	5.68	108	75-125	2	20	
Titanium	101	30	ug/L	100	2.29	98	75-125	6	20	
Zinc	115	5	ug/L	100	16.3	98	75-125	5	20	

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
Blank (B433340-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28						
1,2,4,5-Tetrachlorobenzene	<20	20	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4-Dichlorophenol	<10	10	ug/L							
2,4-Dimethylphenol	<10	10	ug/L							
2,4-Dinitrophenol	<50	50	ug/L							CH
2-Chlorophenol	<10	10	ug/L							
o-Cresol	<10	10	ug/L							
2-Nitrophenol	<20	20	ug/L							CH
3,3´-Dichlorobenzidine	<5	5	ug/L							
m-Cresol & p-Cresol	<10	10	ug/L							
4,6-Dinitro-o-cresol	<50	50	ug/L							CH
p-Chloro-m-cresol	<10	10	ug/L							
4-Nitrophenol	<50	50	ug/L							
Anthracene	<10	10	ug/L							
Benz(a)anthracene	<5	5	ug/L							
Benzidine	<50	50	ug/L							

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
Blank (B433340-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28						
Benzo(a)pyrene	<5	5	ug/L							
Bis(2-Chloroethyl)ether	<10	10	ug/L							CL
Bis(2-Ethylhexyl)phthalate	<10	10	ug/L							
Chrysene	<5	5	ug/L							
Di-n-butylphthalate	<10	10	ug/L							
Hexachlorobenzene	<5	5	ug/L							
Hexachlorobutadiene	<10	10	ug/L							
Hexachlorocyclopentadiene	<10	10	ug/L							
Hexachloroethane	<20	20	ug/L							
Nitrobenzene	<10	10	ug/L							
N-Nitrosodiethylamine	<20	20	ug/L							
N-Nitrosodi-n-butylamine	<20	20	ug/L							
Pentachlorobenzene	<20	20	ug/L							
Pentachlorophenol	<5	5	ug/L							
Phenanthrene	<10	10	ug/L							
Phenol	<10	10	ug/L							
Pyridine	<20	20	ug/L							
Surrogate: 2,4,6-Tribromophenol	*168*		*ug/L*	*200*		*84*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*67.5*		*ug/L*	*100*		*67*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*123*		*ug/L*	*200*		*62*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*68.5*		*ug/L*	*100*		*68*	*8.98-84*			
Surrogate: Phenol-d5	*105*		*ug/L*	*200*		*53*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*86.9*		*ug/L*	*100*		*87*	*8.46-114*			
LCS (B433340-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50						
1,2,4,5-Tetrachlorobenzene	59.5	20	ug/L	80.0		74	0.449-117			
2,4,5-Trichlorophenol	62.7	50	ug/L	80.0		78	20-108			
2,4,6-Trichlorophenol	62.7	10	ug/L	80.0		78	37-144			
2,4-Dichlorophenol	53.9	10	ug/L	80.0		67	39-135			
2,4-Dimethylphenol	67.1	10	ug/L	80.0		84	32-119			
2,4-Dinitrophenol	114	50	ug/L	80.0		143	5-191			CH
2-Chlorophenol	52.4	10	ug/L	80.0		66	23-134			
o-Cresol	52.8	10	ug/L	80.0		66	8-87			
2-Nitrophenol	78.0	20	ug/L	80.0		98	29-182			CH
3,3´-Dichlorobenzidine	72.9	5	ug/L	80.0		91	4.34-262			
m-Cresol & p-Cresol	64.1	10	ug/L	80.0		80	6-85			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
LCS (B433340-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50						
4,6-Dinitro-o-cresol	118	50	ug/L	80.0		148	5-181			CH
p-Chloro-m-cresol	58.8	10	ug/L	80.0		73	22-147			
4-Nitrophenol	60.3	50	ug/L	80.0		75	5-132			
Anthracene	62.2	10	ug/L	80.0		78	27-133			
Benz(a)anthracene	64.5	5	ug/L	80.0		81	33-143			
Benzidine	70.6	50	ug/L	80.0		88	5-73			L
Benzo(a)pyrene	70.9	5	ug/L	80.0		89	17-163			
Bis(2-Chloroethyl)ether	42.1	10	ug/L	80.0		53	12-158			CL
Bis(2-Ethylhexyl)phthalate	66.9	10	ug/L	80.0		84	8-158			
Chrysene	65.4	5	ug/L	80.0		82	17-168			
Di-n-butylphthalate	62.4	10	ug/L	80.0		78	1-118			
Hexachlorobenzene	62.6	5	ug/L	80.0		78	5-152			
Hexachlorobutadiene	46.5	10	ug/L	80.0		58	24-116			
Hexachlorocyclopentadiene	50.0	10	ug/L	80.0		62	12-69			
Hexachloroethane	40.9	20	ug/L	80.0		51	40-113			
Nitrobenzene	54.2	10	ug/L	80.0		68	35-180			
N-Nitrosodiethylamine	46.1	20	ug/L	80.0		58	-2.55-178			
N-Nitrosodi-n-butylamine	43.6	20	ug/L	80.0		54	-4.28-193			
Pentachlorobenzene	60.8	20	ug/L	80.0		76	-1.08-131			
Pentachlorophenol	76.2	5	ug/L	80.0		95	14-176			
Phenanthrene	55.6	10	ug/L	80.0		70	54-120			
Phenol	36.2	10	ug/L	80.0		45	5-112			
Pyridine	32.6	20	ug/L	80.0		41	5-73			
Surrogate: 2,4,6-Tribromophenol	*179*		*ug/L*	*200*		*90*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*67.9*		*ug/L*	*100*		*68*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*112*		*ug/L*	*200*		*56*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*69.9*		*ug/L*	*100*		*70*	*8.98-84*			
Surrogate: Phenol-d5	*95.0*		*ug/L*	*200*		*47*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*88.8*		*ug/L*	*100*		*89*	*8.46-114*			
LCS Dup (B433340-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11						
1,2,4,5-Tetrachlorobenzene	53.2	20	ug/L	80.0		66	0.449-117	11	25.7	
2,4,5-Trichlorophenol	57.3	50	ug/L	80.0		72	20-108	9	64	
2,4,6-Trichlorophenol	58.3	10	ug/L	80.0		73	37-144	7	67	
2,4-Dichlorophenol	51.7	10	ug/L	80.0		65	39-135	4	70	
2,4-Dimethylphenol	62.2	10	ug/L	80.0		78	32-119	8	72	

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B433340 - EPA 3510C										
LCS Dup (B433340-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11						
2,4-Dinitrophenol	106	50	ug/L	80.0		133	5-191	7	142	CH
2-Chlorophenol	47.9	10	ug/L	80.0		60	23-134	9	67	
o-Cresol	49.8	10	ug/L	80.0		62	8-87	6	59	
2-Nitrophenol	73.7	20	ug/L	80.0		92	29-182	6	66	CH
3,3´-Dichlorobenzidine	67.8	5	ug/L	80.0		85	4.34-262	7	50	
m-Cresol & p-Cresol	59.3	10	ug/L	80.0		74	6-85	8	63	
4,6-Dinitro-o-cresol	109	50	ug/L	80.0		136	5-181	8	88	CH
p-Chloro-m-cresol	54.4	10	ug/L	80.0		68	22-147	8	66	
4-Nitrophenol	55.9	50	ug/L	80.0		70	5-132	8	84	
Anthracene	57.3	10	ug/L	80.0		72	27-133	8	64	
Benz(a)anthracene	59.6	5	ug/L	80.0		74	33-143	8	65	
Benzidine	67.0	50	ug/L	80.0		84	5-73	5	87	L
Benzo(a)pyrene	64.0	5	ug/L	80.0		80	17-163	10	69	
Bis(2-Chloroethyl)ether	38.7	10	ug/L	80.0		48	12-158	9	40	CL
Bis(2-Ethylhexyl)phthalate	63.6	10	ug/L	80.0		80	8-158	5	72	
Chrysene	54.1	5	ug/L	80.0		68	17-168	19	65	
Di-n-butylphthalate	58.3	10	ug/L	80.0		73	1-118	7	68	
Hexachlorobenzene	56.8	5	ug/L	80.0		71	5-152	10	69	
Hexachlorobutadiene	43.5	10	ug/L	80.0		54	24-116	7	49	
Hexachlorocyclopentadiene	45.3	10	ug/L	80.0		57	12-69	10	65	
Hexachloroethane	37.6	20	ug/L	80.0		47	40-113	8	42	
Nitrobenzene	51.5	10	ug/L	80.0		64	35-180	5	41	
N-Nitrosodiethylamine	43.6	20	ug/L	80.0		54	-2.55-178	6	29	
N-Nitrosodi-n-butylamine	43.1	20	ug/L	80.0		54	-4.28-193	1	37.8	
Pentachlorobenzene	54.7	20	ug/L	80.0		68	-1.08-131	11	25.5	
Pentachlorophenol	69.9	5	ug/L	80.0		87	14-176	9	50	
Phenanthrene	52.6	10	ug/L	80.0		66	54-120	6	66	
Phenol	33.8	10	ug/L	80.0		42	5-112	7	69	
Pyridine	30.8	20	ug/L	80.0		39	5-73	6	36	
Surrogate: 2,4,6-Tribromophenol	*162*		*ug/L*	*200*		*81*	*18.3-110*			
Surrogate: 2-Fluorobiphenyl	*61.6*		*ug/L*	*100*		*62*	*15.6-80.4*			
Surrogate: 2-Fluorophenol	*102*		*ug/L*	*200*		*51*	*2.8-70.6*			
Surrogate: Nitrobenzene-d5	*63.0*		*ug/L*	*100*		*63*	*8.98-84*			
Surrogate: Phenol-d5	*87.1*		*ug/L*	*200*		*44*	*1.11-63.5*			
Surrogate: Terphenyl-d14	*80.1*		*ug/L*	*100*		*80*	*8.46-114*			

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Report No. 2408133

Semivolatile Organic Compounds by GC/MS (Nonylphenol) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B433339 - ASTM D7065-11									
Blank (B433339-BLK1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:28					
Nonylphenol	<333	333	ug/L						
Surrogate: 2,4,6-Tribromophenol	*163*		*ug/L*	*200*		*82*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*66.6*		*ug/L*	*100*		*67*	*27-111*		
Surrogate: Phenol-d5	*91.6*		*ug/L*	*200*		*46*	*5-64.3*		
Surrogate: Terphenyl-d14	*80.8*		*ug/L*	*100*		*81*	*5-114*		
Surrogate: 2-Fluorophenol	*104*		*ug/L*	*200*		*52*	*5-64.3*		
Surrogate: Nitrobenzene-d5	*57.1*		*ug/L*	*100*		*57*	*22-117*		
LCS (B433339-BS1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 13:50					
Nonylphenol	389	333	ug/L	500		78	32.3-103		
Surrogate: 2,4,6-Tribromophenol	*175*		*ug/L*	*200*		*88*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*67.0*		*ug/L*	*100*		*67*	*27-111*		
Surrogate: Phenol-d5	*82.8*		*ug/L*	*200*		*41*	*5-64.3*		
Surrogate: 2-Fluorophenol	*94.0*		*ug/L*	*200*		*47*	*5-64.3*		
Surrogate: Terphenyl-d14	*82.5*		*ug/L*	*100*		*83*	*5-114*		
Surrogate: Nitrobenzene-d5	*58.3*		*ug/L*	*100*		*58*	*22-117*		
LCS Dup (B433339-BSD1)				Prepared: 08/15/24 09:30 Analyzed: 08/16/24 14:11					
Nonylphenol	360	333	ug/L	500		72	32.3-103	8	21.4
Surrogate: 2,4,6-Tribromophenol	*158*		*ug/L*	*200*		*79*	*5-89.9*		
Surrogate: 2-Fluorobiphenyl	*60.8*		*ug/L*	*100*		*61*	*27-111*		
Surrogate: Phenol-d5	*75.8*		*ug/L*	*200*		*38*	*5-64.3*		
Surrogate: 2-Fluorophenol	*85.6*		*ug/L*	*200*		*43*	*5-64.3*		
Surrogate: Terphenyl-d14	*74.4*		*ug/L*	*100*		*74*	*5-114*		
Surrogate: Nitrobenzene-d5	*52.6*		*ug/L*	*100*		*53*	*22-117*		

Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B434179 - EPA 608.3									
Blank (B434179-BLK1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:16					
PCB 1016	<0.2	0.2	ug/L						
PCB 1221	<0.2	0.2	ug/L						
PCB 1232	<0.2	0.2	ug/L						

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Polychlorinated Biphenyls [PCB] - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B434179 - EPA 608.3									
Blank (B434179-BLK1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:16					
PCB 1242	<0.2	0.2	ug/L						
PCB 1248	<0.2	0.2	ug/L						
PCB 1254	<0.2	0.2	ug/L						
PCB 1260	<0.2	0.2	ug/L						
Surrogate: Decachlorobiphenyl	*0.910*		*ug/L*	*1.00*		*91*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.512*		*ug/L*	*1.00*		*51*	*10.2-92.4*		
LCS (B434179-BS1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:27					
PCB 1016	6.94	0.2	ug/L	10.0		69	13.9-125		
PCB 1260	7.04	0.2	ug/L	10.0		70	29.3-140		
Surrogate: Decachlorobiphenyl	*0.928*		*ug/L*	*1.00*		*93*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.451*		*ug/L*	*1.00*		*45*	*10.2-92.4*		
LCS Dup (B434179-BSD1)				Prepared: 08/19/24 10:00 Analyzed: 08/20/24 12:38					
PCB 1016	6.74	0.2	ug/L	10.0		67	13.9-125	3	29.5
PCB 1260	6.98	0.2	ug/L	10.0		70	29.3-140	0.8	23.1
Surrogate: Decachlorobiphenyl	*0.927*		*ug/L*	*1.00*		*93*	*15.3-112*		
Surrogate: Tetrachloro-meta-xylene	*0.443*		*ug/L*	*1.00*		*44*	*10.2-92.4*		

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					
1,1,1-Trichloroethane	<10	10	ug/L						
1,1,2,2-Tetrachloroethane	<10	10	ug/L						
1,1,2-Trichloroethane	<10	10	ug/L						
1,1-Dichloroethane	<10	10	ug/L						
1,1-Dichloroethylene	<10	10	ug/L						
1,2-Dibromoethane	<10	10	ug/L						
o-Dichlorobenzene	<10	10	ug/L						
1,2-Dichloroethane	<10	10	ug/L						
1,2-Dichloropropane	<10	10	ug/L						

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					
m-Dichlorobenzene	<10	10	ug/L						
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L						
p-Dichlorobenzene	<10	10	ug/L						
2-Chloroethyl Vinyl Ether	<10	10	ug/L						
Acrolein	<50	50	ug/L						
Acrylonitrile	<50	50	ug/L						
Benzene	<10	10	ug/L						
Dichlorobromomethane [Bromodichloromethane]	<10	10	ug/L						
Bromoform	<10	10	ug/L						
Methyl Bromide	<50	50	ug/L						
Carbon Tetrachloride	<2	2	ug/L						
Chlorobenzene	<10	10	ug/L						
Chloroethane	<50	50	ug/L						
Chloroform	<10	10	ug/L						
Methyl Chloride	<50	50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<10	10	ug/L						
Ethylbenzene	<10	10	ug/L						
Methyl Ethyl Ketone (2-Butanone)	<50	50	ug/L						
Dichloromethane [Methylene Chloride]	<20	20	ug/L						
Tetrachloroethylene [Tetrachloroethene]	<10	10	ug/L						
Toluene	<10	10	ug/L						
trans-1,2-Dichloroethylene	<10	10	ug/L						
Trichloroethylene [Trichloroethene]	<10	10	ug/L						
Vinyl chloride [Chloroethene]	<10	10	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*80-106*		
Surrogate: Dibromofluoromethane	*44.5*		*ug/L*	*50.0*		*89*	*83-118*		
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*98*	*91-109*		
LCS (B435190-BS1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:55					
1,1,1-Trichloroethane	40.1	10	ug/L	50.0		80	70-130		
1,1,2,2-Tetrachloroethane	53.9	10	ug/L	50.0		108	60-140		
1,1,2-Trichloroethane	47.1	10	ug/L	50.0		94	70-130		
1,1-Dichloroethane	40.6	10	ug/L	50.0		81	70-130		

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Report No. 2408133

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS (B435190-BS1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:55					
1,1-Dichloroethylene	39.4	10	ug/L	50.0		79	50-150		
1,2-Dibromoethane	48.3	10	ug/L	50.0		97	71.6-124		
o-Dichlorobenzene	49.6	10	ug/L	50.0		99	65-135		
1,2-Dichloroethane	41.1	10	ug/L	50.0		82	70-130		
1,2-Dichloropropane	46.0	10	ug/L	50.0		92	35-165		
m-Dichlorobenzene	48.9	10	ug/L	50.0		98	70-130		
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		
p-Dichlorobenzene	48.0	10	ug/L	50.0		96	65-135		
2-Chloroethyl Vinyl Ether	43.4	10	ug/L	50.0		87	1-225		
Acrolein	37.9	50	ug/L	50.0		76	60-140		
Acrylonitrile	37.7	50	ug/L	50.0		75	60-140		
Benzene	40.0	10	ug/L	50.0		80	65-135		
Dichlorobromomethane [Bromodichloromethane]	45.2	10	ug/L	50.0		90	65-135		
Bromoform	45.5	10	ug/L	50.0		91	70-130		
Methyl Bromide	39.0	50	ug/L	50.0		78	15-185		
Carbon Tetrachloride	39.3	2	ug/L	50.0		79	70-130		
Chlorobenzene	47.4	10	ug/L	50.0		95	65-135		
Chloroethane	41.3	50	ug/L	50.0		83	40-160		
Chloroform	40.0	10	ug/L	50.0		80	70-135		
Methyl Chloride	44.3	50	ug/L	50.0		89	1-205		
Dibromochloromethane [Chlorodibromomethane]	45.8	10	ug/L	50.0		92	70-135		
Ethylbenzene	45.7	10	ug/L	50.0		91	60-140		
Methyl Ethyl Ketone (2-Butanone)	38.9	50	ug/L	50.0		78	56.5-136		
Dichloromethane [Methylene Chloride]	38.3	20	ug/L	50.0		77	60-140		
Tetrachloroethylene [Tetrachloroethene]	44.7	10	ug/L	50.0		89	70-130		
Toluene	42.4	10	ug/L	50.0		85	70-130		
trans-1,2-Dichloroethylene	39.6	10	ug/L	50.0		79	70-130		
Trichloroethylene [Trichloroethene]	45.8	10	ug/L	50.0		92	65-135		
Vinyl chloride [Chloroethene]	47.8	10	ug/L	50.0		96	5-195		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*80-106*		
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93*	*83-118*		
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96*	*91-109*		

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
1,1,1-Trichloroethane	42.5	10	ug/L	50.0		85	70-130	6	36
1,1,2,2-Tetrachloroethane	57.8	10	ug/L	50.0		116	60-140	7	61
1,1,2-Trichloroethane	49.7	10	ug/L	50.0		99	70-130	5	45
1,1-Dichloroethane	42.8	10	ug/L	50.0		86	70-130	5	40
1,1-Dichloroethylene	42.2	10	ug/L	50.0		84	50-150	7	32
1,2-Dibromoethane	51.9	10	ug/L	50.0		104	71.6-124	7	20.3
o-Dichlorobenzene	52.7	10	ug/L	50.0		105	65-135	6	57
1,2-Dichloroethane	44.2	10	ug/L	50.0		88	70-130	7	49
1,2-Dichloropropane	48.8	10	ug/L	50.0		98	35-165	6	55
m-Dichlorobenzene	51.9	10	ug/L	50.0		104	70-130	6	43
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	10	ug/L				0-200		200
p-Dichlorobenzene	51.3	10	ug/L	50.0		103	65-135	7	57
2-Chloroethyl Vinyl Ether	46.5	10	ug/L	50.0		93	1-225	7	71
Acrolein	42.6	50	ug/L	50.0		85	60-140	12	60
Acrylonitrile	41.1	50	ug/L	50.0		82	60-140	9	60
Benzene	43.1	10	ug/L	50.0		86	65-135	7	61
Dichlorobromomethane [Bromodichloromethane]	47.6	10	ug/L	50.0		95	65-135	5	56
Bromoform	48.7	10	ug/L	50.0		97	70-130	7	42
Methyl Bromide	42.4	50	ug/L	50.0		85	15-185	8	61
Carbon Tetrachloride	42.4	2	ug/L	50.0		85	70-130	8	41
Chlorobenzene	50.1	10	ug/L	50.0		100	65-135	5	53
Chloroethane	43.4	50	ug/L	50.0		87	40-160	5	78
Chloroform	42.5	10	ug/L	50.0		85	70-135	6	54
Methyl Chloride	46.2	50	ug/L	50.0		92	1-205	4	60
Dibromochloromethane [Chlorodibromomethane]	49.2	10	ug/L	50.0		98	70-135	7	50
Ethylbenzene	48.2	10	ug/L	50.0		96	60-140	5	63
Methyl Ethyl Ketone (2-Butanone)	40.8	50	ug/L	50.0		82	56.5-136	5	30.7
Dichloromethane [Methylene Chloride]	41.0	20	ug/L	50.0		82	60-140	7	28
Tetrachloroethylene [Tetrachloroethene]	40.9	10	ug/L	50.0		82	70-130	9	39
Toluene	44.9	10	ug/L	50.0		90	70-130	6	41
trans-1,2-Dichloroethylene	42.3	10	ug/L	50.0		85	70-130	7	45
Trichloroethylene [Trichloroethene]	48.0	10	ug/L	50.0		96	65-135	5	48
Vinyl chloride [Chloroethene]	50.8	10	ug/L	50.0		102	5-195	6	66

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*80-106*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*83-118*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*91-109*		

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
Blank (B435190-BLK1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:28					
Dichlorobromomethane [Bromodichloromethane]	<2.50	2.50	ug/L						
Bromoform	<2.50	2.50	ug/L						
Chloroform	<2.50	2.50	ug/L						
Dibromochloromethane [Chlorodibromomethane]	<2.50	2.50	ug/L						
Total Trihalomethanes	<10.0	10.0	ug/L						
Surrogate: 4-Bromofluorobenzene	*49.8*		*ug/L*	*50.0*		*100*	*65.7-120*		
Surrogate: Dibromofluoromethane	*44.5*		*ug/L*	*50.0*		*89*	*81.2-126*		
Surrogate: Toluene-d8	*48.9*		*ug/L*	*50.0*		*98*	*87.4-109*		
LCS (B435190-BS1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 09:55					
Dichlorobromomethane [Bromodichloromethane]	45.2	2.50	ug/L	50.0		90	80-120		
Bromoform	45.5	2.50	ug/L	50.0		91	80-120		
Chloroform	40.0	2.50	ug/L	50.0		80	80-120		
Dibromochloromethane [Chlorodibromomethane]	45.8	2.50	ug/L	50.0		92	80-120		
Surrogate: 4-Bromofluorobenzene	*52.1*		*ug/L*	*50.0*		*104*	*65.7-120*		
Surrogate: Dibromofluoromethane	*46.7*		*ug/L*	*50.0*		*93*	*81.2-126*		
Surrogate: Toluene-d8	*48.2*		*ug/L*	*50.0*		*96*	*87.4-109*		
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
Dichlorobromomethane [Bromodichloromethane]	47.6	2.50	ug/L	50.0		95	80-120	5	20
Bromoform	48.7	2.50	ug/L	50.0		97	80-120	7	20

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
Received:
08/07/24 15:25

Additional Notes:
This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

Total Trihalomethanes by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B435190 - EPA 624.1									
LCS Dup (B435190-BSD1)				Prepared: 08/21/24 08:30 Analyzed: 08/21/24 10:22					
Chloroform	42.5	2.50	ug/L	50.0		85	80-120	6	20
Dibromochloromethane [Chlorodibromomethane]	49.2	2.50	ug/L	50.0		98	80-120	7	20
Surrogate: 4-Bromofluorobenzene	*52.4*		*ug/L*	*50.0*		*105*	*65.7-120*		
Surrogate: Dibromofluoromethane	*47.2*		*ug/L*	*50.0*		*94*	*81.2-126*		
Surrogate: Toluene-d8	*48.1*		*ug/L*	*50.0*		*96*	*87.4-109*		

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

Reported:
12/19/24 17:13
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08/07/24 15:25

Additional Notes:

This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Report No. 2408133

SAMPLE QUALIFIERS

Za	Surrogate recoveries out of acceptance range due to misinject from instrument, does not affect results.
Z	Fluoride Result 1.19 mg/L
P2	Samples received at pH<2
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.
CL	CCV recovery is outside QC limits, the results may have a slight low bias.
CH	CCV recovery is outside QC limits, the results may have a slight high bias.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
Eurofins - Pittsburgh	2408133-01	CN_Sub
Eurofins - Pittsburgh	2408133-01	Color_SUB

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB Priority Pollutants
Project Number: Inlet PP (Week4)

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Report No. 2408133

Additional Notes:

This supersedes the last report (2408133_1 1-SATL1 08 30 24 0831) issued. Reason: Corrected units, prep requested by client, 12/19/24.

Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2408133
ADDRESS: 12940 US HWY 181 S	ADDRESS:	
CITY: SA STATE: TX ZIP: 78223	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #: 210-213-7388	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB Inlet PP (Week 4)

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____; Temp:_____ °C; LCS/D:_____/_____; Dup:_____

PROJECT NO.

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY: Isaac Dotray

OBSERVED TEMP. 3.9°C / CORRECTED TEMP. 3.9°C / TEMP. I.B. GUN # 7 / SAMPLE ICED ☒ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

ANALYSIS REQUESTED

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	P.P. (see attachment)	PRESERVED WITH: HCl	H3NO4S	HNO3	H2SO4	NaOH	ZnAcNaOH	MeOH	NONE	COMPOSITED IN THE LAB	FILTERED IN THE LAB	VOA AIR BUBBLES	REMARKS
1	8-7-24	0955		X								X			VHB Inlet	25	1169	5mL									X														mDA

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
	8-7-24 1525		8-7-24				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Isaac Dotray		Hannah Ehlinger	1525				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO: Ewoins-Pits	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet
(Process Water Outfalls)	1	CAL/VHB	External	Yes
4 consecutive weeks of sampling	2	CAL/VHB	External	Yes
	3	CAL/VHB	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB	External	Yes
	8	CAL/VHB	External	Yes
	9	CAL/VHB	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Parameters Ordered from SATL — All except Hg, Ar & Se — Use detection limit from permit app tables

Parameters Ordered from Alpha — Hg, Ar & Se

Test America — Cn

Notes
Cyanide method DIA 1677
No E. coli sampling at VHB

NOTES

Calaveras 4 sample kits needed for each outfall 001, 007, 002, Inlet

VHB 4 sample kits needed for each outfall 001, Inlet
4 sample kits needed for LCP 001

1 sample kit for each stormwater outfall

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

_____

(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): _____

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** _____

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

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

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.:

Samples are (check one): ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as $CaCO_3$)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.:

Samples are (check one): ☒ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☐ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

Table 4 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☐ N/A

Table 5 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					–
Nitrate-Nitrite (as N)	☐	☐					–
Sulfide (as S)	☐	☐					–
Sulfite (as SO_3)	☐	☐					–
Surfactants	☐	☐					–
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☐ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: [redacted] : Volatile Compounds

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: : Acid Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: : Base/Neutral Compounds

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: [redacted] : Pesticides

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment:

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 60-61)

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

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

Description:

b. Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

☐ Yes ☐ No

Description:

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

Table 12 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Table 13 for Outfall No.:

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marissa Esquivel**
Project: VHB Priority Pollutants	**Project Number: Inlet PP (Week4)**

Report To:
Chelsey Vasbinder

SATL Report Number: 2408133

Work Order Due by:	08/16/24 17:00 (7 day TAT)		
Received By:	Hannah Thigpen	Date Received:	08/07/24 15:25
Logged In By:	Aimee Landon	Date Logged In:	08/07/24 15:38

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*3.9°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:
** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*
*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *08/07/24 15:25*

SATL#FO001
Revised 09/15/2022

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Marissa Esquivel
San Antonio Testing Laboratory Inc
1610 S Laredo Street
San Antonio, Texas 78207

Generated 8/12/2024 8:24:32 AM

JOB DESCRIPTION

Permit Analysis

JOB NUMBER

180-178144-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Eurofins Pittsburgh

Job Notes

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

PA Lab ID: 02-00416

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

Authorization



Generated
8/12/2024 8:24:32 AM

Authorized for release by
Roseann Ruyechan, Manager of Project Management
Roseann.Ruyechan@et.eurofinsus.com
(412)963-2446

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Job ID: 180-178144-1 — Eurofins Pittsburgh

Job Narrative
180-178144-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 8/8/2024 10:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

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

Definitions/Glossary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Glossary

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

Accreditation/Certification Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Laboratory: Eurofins Pittsburgh

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
2120B-2011		Water	pH at time of analysis

Sample Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-178144-1	2408133-01 (VHB INLET)	Water	08/07/24 09:55	08/08/24 10:12

Method Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Method	Method Description	Protocol	Laboratory
2120B-2011	Color	SM	EET PIT
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Client Sample ID: 2408133-01 (VHB INLET)
Lab Sample ID: 180-178144-1
Date Collected: 08/07/24 09:55
Matrix: Water
Date Received: 08/08/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2120B-2011		1	50 mL	50 mL	476280	08/09/24 08:17	SNR	EET PIT
	Instrument ID: NOEQUIP									
Total/NA	Analysis	OIA - 1677		1			476340	08/09/24 14:00	SNR	EET PIT
	Instrument ID: ALPKEM3									

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: EET PIT

Batch Type: Analysis

SNR = Sabra Richart

Client Sample Results

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

Client Sample ID: 2408133-01 (VHB INLET)
Lab Sample ID: 180-178144-1
Date Collected: 08/07/24 09:55
Matrix: Water
Date Received: 08/08/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent (SM 2120B-2011)	**35**		5.0	5.0	Color Units			08/09/24 08:17	1
Color, True (SM 2120B-2011)	**10**		5.0	5.0	Color Units			08/09/24 08:17	1
pH at time of analysis (SM 2120B-2011)	**9.6**		0.10	0.10	SU			08/09/24 08:17	1
Cyanide, Available (EPA OIA - 1677)	ND		2.0	1.6	ug/L			08/09/24 14:00	1

QC Sample Results

Client: San Antonio Testing Laboratory Inc
Project/Site: Permit Analysis

Job ID: 180-178144-1

Method: 2120B-2011 - Color

Lab Sample ID: MB 180-476280/1
Matrix: Water
Analysis Batch: 476280

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		5.0	5.0	Color Units			08/09/24 08:06	1
Color, True	ND		5.0	5.0	Color Units			08/09/24 08:06	1
pH at time of analysis	NA		0.10	0.10	SU			08/09/24 08:06	1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-476340/62
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 13:42	1

Lab Sample ID: MB 180-476340/84
Matrix: Water
Analysis Batch: 476340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	ND		2.0	1.6	ug/L			08/09/24 14:15	1

Lab Sample ID: LCS 180-476340/63
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	50.5		ug/L		101	82 - 132

Lab Sample ID: LCSD 180-476340/86
Matrix: Water
Analysis Batch: 476340

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Available	50.1	50.9		ug/L		102	82 - 132	2	20

QC Association Summary

Client: San Antonio Testing Laboratory Inc
Job ID: 180-178144-1
Project/Site: Permit Analysis

General Chemistry

Analysis Batch: 476280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-178144-1	2408133-01 (VHB INLET)	Total/NA	Water	2120B-2011	
MB 180-476280/1	Method Blank	Total/NA	Water	2120B-2011	
LCS 180-476280/2	Lab Control Sample	Total/NA	Water	2120B-2011	

Analysis Batch: 476340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-178144-1	2408133-01 (VHB INLET)	Total/NA	Water	OIA - 1677	
MB 180-476340/62	Method Blank	Total/NA	Water	OIA - 1677	
MB 180-476340/84	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-476340/63	Lab Control Sample	Total/NA	Water	OIA - 1677	
LCSD 180-476340/86	Lab Control Sample Dup	Total/NA	Water	OIA - 1677	

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SATL	COMPANY SATL	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	E-MAIL
ATTN Aimee Landon PHONE 210 229 9920	ATTN Elizabeth PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☐ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ ·

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH _____; Temp:_____ °C; LCS/D _____|_____; Dup:_____

PROJECT NO

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☐ YES ☐ NO
PROPER CONTAINERS INTACT ☐ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER) ☐ YES ☐ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY

OBSERVED TEMP / CORRECTED TEMP / TEMP I R GUN #_____ / SAMPLE ICED ☐ YES ☐ NO
TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / C-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	ANALYSIS REQUESTED	PRESERVED WITH	REMARKS
1	8/7/24	0955		X								X			240813320 (VTB Inlet)	2	500	250									X	X	

180-178144 Chain of Custody

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Aimee Landon	8/7/24 1600	RECEIVED BY (PRINT NAME) S. Ryan	8/8/24 1012	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT		SUBCONTRACTED ☐ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☐		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

Login Sample Receipt Checklist

Client: San Antonio Testing Laboratory Inc

Job Number: 180-178144-1

Login Number: 178144

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAN ANTONIO TESTING LABORATORY

September 13, 2024

Chelsey Vasbinder
CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio, TX 78296-1771

SATL Report No.: 2409049
RE: VHB PP Stormwater

Dear Chelsey Vasbinder

SATL received 1 Sample(s) on 09/04/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

SAMPLE SUMMARY

Total Samples received in this work order: **1**

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
VHB 003	2409049-01	Liquid	Grab	09/04/24 10:20	09/04/24 13:00

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

Sample ID #: VHB 003 **Sampling Method: Grab** **Lab Sample ID #: 2409049-01**

Sample Matrix: Liquid **Date/Time Collected: 09/04/24 10:20**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
Total Organic Carbon *	10.8	mg/L	1.00	SM 5310C	B437337	09/13/24 15:33	SM5310C	SG	
Total Suspended Solids *	43.0	mg/L	8.33	SM2540D	B437189	09/09/24 15:05	SM2540D	DD	
COD *	39.8	mg/L	5.00	H8000	B436174	09/04/24 17:23	H8000	DD	
pH *	7.00	pH Units	0.01	SM4500HB	B436201	09/05/24 16:06	SM4500HB	JA	H
pH measured @Temperature >>	20.3	°C	0.100	SM4500HB	B436201	09/05/24 16:06	SM2550B	JA	H
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B437208	09/07/24 17:17	EPA 1664A	DD	Q, Q1
Hexavalent Chromium *	<0.003	mg/L	0.003	I-1230-85	B437303	09/05/24 17:12	I-1230-85	JA	
Total Metals By ICP-MS									
Barium *	72	ug/L	3	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Cadmium *	<1	ug/L	1	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Chromium *	<3	ug/L	3	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Copper *	<2	ug/L	2	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Lead *	0.7	ug/L	0.5	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Nickel *	<2	ug/L	2	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Silver *	<0.5	ug/L	0.5	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Zinc *	25	ug/L	5	EPA 200.8	B436187	09/05/24 15:30	EPA 200.8	SJ	
Trivalent Chromium (Calculated)									
Trivalent Chromium	<3.00	ug/L	3.00	[CALC]	[CALC]	09/05/24 17:12	CALC	JA	

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Additional Notes:

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Report No. 2409049

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B436174 - H8000										
Blank (B436174-BLK1)				Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:10						
COD	<5.00	5.00	mg/L							
LCS (B436174-BS1)				Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:11						
COD	47.2	5.00	mg/L	50.0		94	80-120			
LCS Dup (B436174-BSD1)				Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:12						
COD	43.7	5.00	mg/L	50.0		87	80-120	8	20	
Duplicate (B436174-DUP1)		**Source: 2408588-01**		Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:14						
COD	38.4	5.00	mg/L		36.3			6	20	
Matrix Spike (B436174-MS1)		**Source: 2408588-01**		Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:15						
COD	88.8	5.00	mg/L	50.0	36.3	105	80-120			
Matrix Spike Dup (B436174-MSD1)		**Source: 2408588-01**		Prepared: 09/04/24 12:00 Analyzed: 09/04/24 17:16						
COD	85.3	5.00	mg/L	50.0	36.3	98	80-120	4	20	
Batch B436201 - SM4500HB										
LCS (B436201-BS1)				Prepared: 09/05/24 10:00 Analyzed: 09/05/24 10:00						
pH	6.93	0.01	pH Units	7.00		99	97.5-102.5			
pH measured @Temperature >>	21.3	0.100	°C				0-200			
Duplicate (B436201-DUP1)		**Source: 2408489-01**		Prepared: 09/05/24 10:00 Analyzed: 09/05/24 10:04						
pH	7.15	0.01	pH Units		7.19			0.6	20	H
pH measured @Temperature >>	19.1	0.100	°C		19.1			0	30	H
Batch B437189 - SM2540D										
Blank (B437189-BLK1)				Prepared: 09/09/24 08:30 Analyzed: 09/09/24 09:00						
Total Suspended Solids	<2.50	2.50	mg/L							
LCS (B437189-BS1)				Prepared: 09/09/24 08:30 Analyzed: 09/09/24 09:01						
Total Suspended Solids	84.0	25.0	mg/L	100		84	80-120			
LCS Dup (B437189-BSD1)				Prepared: 09/09/24 08:30 Analyzed: 09/09/24 09:02						
Total Suspended Solids	86.0	25.0	mg/L	100		86	80-120	2	20	
Duplicate (B437189-DUP1)		**Source: 2409034-01**		Prepared: 09/09/24 08:30 Analyzed: 09/09/24 15:02						
Total Suspended Solids	366	12.5	mg/L		330			10	20	

CPS Energy - Environmental Dept.
P.O. Box 1771
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Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B437208 - EPA 1664A									
Blank (B437208-BLK1)				Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:00			
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B437208-BS1)				Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:01			
Oil & Grease (HEM)	38.1	4.75	mg/L	40.0		95	78-114		
LCS Dup (B437208-BSD1)				Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:02			
Oil & Grease (HEM)	36.7	4.75	mg/L	40.0		92	78-114	4	18
Matrix Spike (B437208-MS1)		**Source: 2408588-01**		Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:05			
Oil & Grease (HEM)	34.6	4.75	mg/L	40.0	1.00	84	78-114		
Matrix Spike (B437208-MS2)		**Source: 2408589-01**		Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:07			
Oil & Grease (HEM)	36.1	4.75	mg/L	40.0	<4.75	90	78-114		
Matrix Spike (B437208-MS3)		**Source: 2408590-01**		Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:09			
Oil & Grease (HEM)	39.2	4.75	mg/L	40.0	0.900	96	78-114		
Matrix Spike (B437208-MS4)		**Source: 2408591-01**		Prepared: 09/06/24 12:00		Analyzed: 09/07/24 17:11			
Oil & Grease (HEM)	39.5	4.75	mg/L	40.0	<4.75	99	78-114		
Batch B437303 - I-1230-85									
Blank (B437303-BLK1)				Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	<0.003	0.003	mg/L						
LCS (B437303-BS1)				Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	0.387	0.003	mg/L	0.400		97	90-110		
LCS Dup (B437303-BSD1)				Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	0.391	0.003	mg/L	0.400		98	90-110	1	20
Duplicate (B437303-DUP1)		**Source: 2409049-01**		Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	<0.003	0.003	mg/L		<0.003				20
Matrix Spike (B437303-MS1)		**Source: 2409049-01**		Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	0.409	0.003	mg/L	0.400	<0.003	102	80-120		
Matrix Spike Dup (B437303-MSD1)		**Source: 2409049-01**		Prepared: 09/05/24 17:00		Analyzed: 09/05/24 17:12			
Hexavalent Chromium	0.397	0.003	mg/L	0.400	<0.003	99	80-120	3	20
Batch B437337 - SM 5310C									

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Blank (B437337-BLK1)				Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	<0.10	0.10	mg/L							
LCS (B437337-BS1)				Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	4.22	0.10	mg/L	5.00		84	80-120			
LCS Dup (B437337-BSD1)				Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	4.24	0.10	mg/L	5.00		85	80-120	0.5	20	
Duplicate (B437337-DUP1)		**Source: 2409049-01**		Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	11.4	1.00	mg/L		10.8			6	20	
Matrix Spike (B437337-MS1)		**Source: 2409049-01**		Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	14.2	0.10	mg/L	5.00	10.8	67	70-130			M
Matrix Spike Dup (B437337-MSD1)		**Source: 2409049-01**		Prepared: 09/13/24 15:29 Analyzed: 09/13/24 15:33						
Total Organic Carbon	14.1	0.10	mg/L	5.00	10.8	67	70-130	0.1	20	M

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B436187 - EPA 200.8									
Blank (B436187-BLK1)				Prepared: 09/05/24 10:15 Analyzed: 09/05/24 14:40					
Barium	<3	3	ug/L						
Cadmium	<1	1	ug/L						
Chromium	<3	3	ug/L						
Copper	<2	2	ug/L						
Lead	<0.5	0.5	ug/L						
Nickel	<2	2	ug/L						
Silver	<0.5	0.5	ug/L						
Zinc	<5	5	ug/L						
LCS (B436187-BS1)				Prepared: 09/05/24 10:15 Analyzed: 09/05/24 14:43					
Barium	99.0	3	ug/L	100		99	85-115		
Cadmium	98.5	1	ug/L	100		98	85-115		
Chromium	96.4	3	ug/L	100		96	85-115		
Copper	91.5	2	ug/L	100		91	85-115		

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B436187 - EPA 200.8									
LCS (B436187-BS1)				Prepared: 09/05/24 10:15 Analyzed: 09/05/24 14:43					
Lead	96.2	0.5	ug/L	100		96	85-115		
Nickel	94.5	2	ug/L	100		95	85-115		
Silver	86.6	0.5	ug/L	100		87	85-115		
Zinc	96.6	5	ug/L	100		97	85-115		
LCS Dup (B436187-BSD1)				Prepared: 09/05/24 10:15 Analyzed: 09/05/24 14:47					
Barium	96.3	3	ug/L	100		96	85-115	3	20
Cadmium	96.1	1	ug/L	100		96	85-115	2	20
Chromium	95.2	3	ug/L	100		95	85-115	1	20
Copper	89.5	2	ug/L	100		89	85-115	2	20
Lead	93.6	0.5	ug/L	100		94	85-115	3	20
Nickel	92.3	2	ug/L	100		92	85-115	2	20
Silver	91.6	0.5	ug/L	100		92	85-115	6	20
Zinc	95.3	5	ug/L	100		95	85-115	1	20
Duplicate (B436187-DUP1)		**Source: 2409049-01**		Prepared: 09/05/24 10:15 Analyzed: 09/05/24 15:33					
Barium	74.1	3	ug/L		72.0			3	20
Cadmium	0.0221	1	ug/L		0.0246			11	20
Chromium	0.676	3	ug/L		0.718			6	20
Copper	1.94	2	ug/L		1.95			0.5	20
Lead	0.595	0.5	ug/L		0.662			11	20
Nickel	1.50	2	ug/L		1.45			3	20
Silver	<0.5	0.5	ug/L		<0.5				20
Zinc	26.6	5	ug/L		25.5			4	20
Matrix Spike (B436187-MS1)		**Source: 2409049-01**		Prepared: 09/05/24 10:15 Analyzed: 09/05/24 15:37					
Barium	172	3	ug/L	100	72.0	100	75-125		
Cadmium	103	1	ug/L	100	0.0246	103	75-125		
Chromium	92.5	3	ug/L	100	0.718	92	75-125		
Copper	89.7	2	ug/L	100	1.95	88	75-125		
Lead	101	0.5	ug/L	100	0.662	100	75-125		
Nickel	90.7	2	ug/L	100	1.45	89	75-125		
Silver	92.6	0.5	ug/L	100	<0.5	93	75-125		
Zinc	126	5	ug/L	100	25.5	100	75-125		
Matrix Spike Dup (B436187-MSD1)		**Source: 2409049-01**		Prepared: 09/05/24 10:15 Analyzed: 09/05/24 15:40					
Barium	167	3	ug/L	100	72.0	95	75-125	3	20

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Additional Notes:

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Report No. 2409049

Total Metals By ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B436187 - EPA 200.8									
Matrix Spike Dup (B436187-MSD1)		**Source: 2409049-01**		Prepared: 09/05/24 10:15 Analyzed: 09/05/24 15:40					
Cadmium	104	1	ug/L	100	0.0246	104	75-125	0.8	20
Chromium	92.7	3	ug/L	100	0.718	92	75-125	0.3	20
Copper	90.0	2	ug/L	100	1.95	88	75-125	0.4	20
Lead	97.8	0.5	ug/L	100	0.662	97	75-125	3	20
Nickel	90.8	2	ug/L	100	1.45	89	75-125	0.04	20
Silver	93.1	0.5	ug/L	100	<0.5	93	75-125	0.6	20
Zinc	125	5	ug/L	100	25.5	99	75-125	0.7	20

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater
Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Additional Notes:

Report No. 2409049

SAMPLE QUALIFIERS

Q1	MS sample analyzed in this batch is NOT from this specific sampling site.
Q	Additional Sample volumes were NOT provided to the laboratory for the analysis of an MS sample as required by EPA Method 1664.
H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

CPS Energy - Environmental Dept.
P.O. Box 1771
San Antonio TX, 78296-1771

Additional Notes:

Project Manager: Chelsey Vasbinder
Project: VHB PP Stormwater

Project Number: [none]

Reported:
09/13/24 17:03
Received:
09/04/24 13:00

Report No. 2409049

Aimee Landon For Marcela Gracia Hawk, President For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY: CPS Energy	COMPANY:	REPORT NUMBER: 2409049
ADDRESS: 15290 Streich Rd	ADDRESS:	
CITY: Elmendorf STATE: TX ZIP: 78112	CITY: STATE: ZIP:	E-MAIL:
ATTN: C. Vasbinder PHONE #:	ATTN: PHONE #:	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☒ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: VHB Priority Pollutan - SW

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐

Field: pH:_____; Temp:_____ °C; LCS/D:_____/_____; Dup:_____

PROJECT NO.:

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☒ YES ☐ NO
PROPER CONTAINERS INTACT ☒ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☒ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED _____

SAMPLED BY: MDA / ID

OBSERVED TEMP. 3.5C / CORRECTED TEMP. 3.5C / TEMP. I.R. GUN #7
SAMPLE ICED ☒ YES ☐ NO
TRRP 13 ☐ APPENDIX A ☐
PST/TCLS ☐ SIM/LOW LEVEL ☐
TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED: DATE	TIME	DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / Q-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	see attachment	PRESERVED WITH: HCl / HNO3 / H2SO4 / NaOH / NaOH+ZnAc / MeOH / HNO3	REMARKS
	9-4-24	1020		X								X			VHB0003	5		2,500 mL							X		XXX	X	

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
RELINQUISHED BY (PRINT NAME) Kevin Doherty	9/4/24 1300	RECEIVED BY (PRINT NAME) Hannah Hopper	9-4-24 1300	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT Hand		SUBCONTRACTED ☒ YES ☒ NO NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☒		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☒ NO	

FORM: COC REV 09/2022 WHITE - LAB CANARY - CLIENT

Priority Pollutants

Worksheet 2.0	Table	Plant	Outfalls	Inlet
(Process Water Outfalls)	1	CAL/VHB/LCP	External	Yes
4 consecutive weeks of sampling	2	CAL/VHB/LCP	External	Yes
	3	CAL/VHB/LCP	External	Yes
	4	CAL	001 & 007 Only	Yes
	6	CAL/VHB/LCP	External	Yes
	8	CAL/VHB/LCP	External	Yes
	9	CAL/VHB/LCP	External	Yes

Worksheet 7.0	Table	Plant	Outfalls
(Stormwater Outfalls)	17	CAL	006, 014, 015, 016, 017, 018
One time sample. Must include environmental/weather informaiton	17	VHB	003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, 019

Parameters Ordered from SATL	All except Hg, Ar & Se	Use detection limit from permit app tables.
Parameters Ordered from Albion	Hg, Ar & Se	Will check with Gregg on additional metals
Parameters Ordered from Test America	Cn	

Table 17 Pollutant Analysis for Outfall No.:

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids						—
Chemical oxygen demand						—
Total organic carbon						—
Oil and grease						—
Arsenic, total						0.0005
Barium, total						0.003
Cadmium, total						0.001
Chromium, total						0.003
Chromium, trivalent						—
Chromium, hexavalent						0.003
Copper, total						0.002
Lead, total						0.0005
Mercury, total						0.000005
Nickel, total						0.002
Selenium, total						0.005
Silver, total						0.0005
Zinc, total						0.005

* Taken during first 30 minutes of storm event
** Flow-weighted composite sample

d. Complete Table 18 as directed on pages 92-94 of the Instructions.

Table 18 Pollutant Analysis for Outfall No.:

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled

* Taken during first 30 minutes of storm event
** Flow-weighted composite sample

Attachment:

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: CPS Energy - Environmental Dept.	**Project Manager: Marcela Gracia Hawk**
Project: VHB PP Stormwater	**Project Number: VHB Priority Polution - SW**

Report To:

Chelsey Vasbinder

SATL Report Number: 2409049

Work Order Due by:	09/13/24 17:00 (7 day TAT)		
Received By:	Hannah Thigpen	Date Received:	09/04/24 13:00
Logged In By:	Hannah Thigpen	Date Logged In:	09/04/24 13:20

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*3.5°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*Yes*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:

** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*

*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Hannah Thigpen* Date : *09/04/24 13:00*

SATL#FO001
Revised 09/15/2022

ATTACHMENT – DESCRIPTION OF PERMIT CHANGES

DESCRIPTION OF PERMIT CHANGES

1. Add stormwater associated with construction activity to the lists of contributing wastestreams for outfalls identified as potentially being impacted by construction within the next five years.
    a. CPS Energy is anticipating potential construction projects within the drainage areas of Outfalls 001, 501, 701, 901, 003, 006, 007, 008, 011, 015, 017, 018, and 019 within the permit term and wishes to include coverage for construction stormwater discharges under this permit for these outfalls in lieu of obtaining coverage under TPDES Permit No. TXR150000.
2. Reduce frequency for flow measurement from 1/week to 1/6 months for the following stormwater outfalls: 501, 601, 701, 901, 003, 006, 007, 008, 009, 010, 011, 013, 016, 015, 017, 018, 019
    a. This change in monitoring frequency for flow will better accommodate periods of very little or no rainfall by reducing reporting and recordkeeping burden when there is no flow to monitor.
3. Revise current representative sampling provision for Outfalls 015, 017, and 018 so that all are representative of each other. This approach is consistent with TPDES Permit No. WQ0001514000 for the City Public Service of San Antonio Calaveras Power Station.
    a. The following text is proposed for the reissued TPDES permit for V.H. Braunig Power Station:

        "Outfalls 015, 017, and 018 are authorized to discharge substantially identical effluents (i.e. stormwaters). The permittee may sample the effluent discharged via only one outfall (Outfall 015, 017, or 018) and report that quantitative data as applying to the substantially other identical outfalls (Outfall 015, 017, or 018)."

    b. This will simplify and streamline the monitoring requirements associated with these outfalls.
    c. The lists of contributing wastestreams for these outfalls are identical.
4. CPS Requests the consideration of permit conditions allowing the use of extended chlorination or alternate mussel mitigation strategies if necessary for mussels mitigation at the Plant.
    a. Zebra mussels are present within Medina Lake, which through the Medina River is connected to the San Antonio River. The water within in Braunig Lake is partly filled with recycled water that has undergone both primary and secondary treatment and has been released into the San Antonio River upstream of the river makeup water intake. Zebra mussels may eventually reach Braunig Lake via the San Antonio River due to its connection with the Medina River. In addition, Braunig Lake is a space for community recreation, including boating and fishing. As such, zebra mussels have the potential to be introduced to Braunig Lake by watercraft launched at one of the Lake's boat ramps at Braunig Lake Park. According to the Texas Parks and Wildlife, zebra mussels have infested multiple lakes in Texas to include Lakes Amistad, Austin, Belton, Bridgeport, Brownwood, Buchanan, Canyon, Dean Gilbert, Diversion, Eagle Mountain, Georgetown, Granger, Grapevine, Hords Creek, Inks, Lady Bird, Lewisville, Livingston, Lyndon B. Johnson, Marble Falls, Medina, O.H. Ivie, Pflugerville, Placid, Randell, Ray Roberts, Richland Chambers, Stillhouse Hollow, Texoma, Travis, Town Center Pond, Walter E. Long, and

Worth. In addition, larvae have been found within several other lakes. An introduction of zebra mussels could occur from the use of watercraft in an infested lake that were not properly cleaned, dried, and drained prior to use in Braunig Lake.

A mussel vulnerability study by RNT Consulting Inc. (the study) was commissioned by CPS Energy in 2023. The study found that Braunig Lake has the potential to support a population of zebra mussels which would have the potential to impact Plant operations and cause wear on Plant mechanical components. The study also found that the current chlorination practices utilized to control biofilm would be insufficient to fully mitigate potential impacts from zebra mussels to the Plant's equipment and operations.

CPS Energy is considering the implementation of proactive measures in anticipation of a potential future zebra mussel infestation of Braunig Lake. The implemented measures would be taken with the intent to mitigate potential operational problems at the Plant that could interfere with the ability of the Plant to provide reliable electric service for CPS Energy customers. As part of these efforts, CPS Energy requests an amendment to this permit to allow for extended chlorination or an alternate mitigation technique as part of CPS Energy's efforts to mitigate potential zebra mussel impacts to the future operations of the Plant. This amendment is requested as part of CPS Energy's proactive approach to mussel mitigation so that the Plant is better prepared to respond in the event zebra mussels are detected within Braunig Lake during the permit term. This would also help CPS Energy avoid the need for a reactive permit amendment request following a potential future infestation of Braunig Lake.

The study commissioned by CPS Energy in 2023 provided a potential treatment strategy of continuous or semi-continuous (15 minutes on; 45 minutes off) chlorination with a concentration of 0.3 to 0.5 ppm of TRC. As CPS Energy currently utilizes chlorine for biofilm control, this method has the potential for quick implementation at the Plant in the event mussel mitigation becomes necessary to support Plant operations and reliability over the permit term. This method has found use by other generating utilities and was an original method utilized when mussels arrived within the Great Lakes.

As part of CPS Energy's proactive approach to zebra mussel mitigation, it is flexible and is open to considering permit conditions from TCEQ allowing alternate or additional techniques for mitigation. Based on the study, these techniques could potentially include treatments with chemical products such as Zequanox or EarthTec QZ, retrofitting components such as screens or grates with designs containing a higher copper content that are resistant to mussel settlement, mechanical filtration, or application of antifouling coatings. In addition, CPS Energy also understands technologies such as copper ion generator systems are in use by operators in Texas, such as the City of Austin, but has not yet evaluated potential application of this technology to the Braunig Power Station.

5. CPS Energy requests a review of the existing chlorine limits in the permit and an explanation of how the existing mass limits were originally calculated. CPS Energy is interested in a relaxation

of the mass limits as part of this permit renewal and amendment. The current mass limits do not appear to correspond to the existing concentration limits at the permitted flow rates.

6. CPS Energy requests that the FAC limit compliance calculation text read as follows:

   The term free available chlorine means the value obtained using any of the "chlorine-free available" methods in Table IB in 40 CFR § 136.3(a) where the method has the capability of measuring free available chlorine, or other methods approved by the TCEQ.

   Free available chlorine may not be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the TCEQ that the units in a particular location cannot operate at or below this level of chlorination.

   Simultaneous multi-unit chlorination is not permitted.

   The daily maximum mass loading of free available chlorine (FAC) must be calculated using the following equation:

   FAC (lbs/day) = FAC (mg/L) x flow (MGD) x 8.345 x (total hours of chlorination/24 hours) where:

   FAC (mg/L) = maximum concentration of FAC measured in the effluent during representative period of chlorination

   flow (MGD) = total actual flow of discharge via outfall during sampling day

   total hours of chlorination/24 hours = the sum total hours of chlorination/24 hours from generating unit(s) operating on that day, and cannot exceed 16 hours, i.e. chlorination hours (Unit 1) + chlorination hours (Unit 2) + chlorination hours (Unit 3) + etc.

   a. This change includes a more accurate calculation for chlorination and accounts for periods of chlorination specific to each unit. Additional justification is that the calculation is in accordance with the TCEQ's May 2021 update.

ATTACHMENT – AFFECTED LANDOWNER INFORMATION

MapID	Property Address	Property Owner	Owner Address	City	ZIP
A	14246 OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	LABUS RD , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	DONOP RD , SAN ANTONIO, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	17711 SHADY FALLS RD , SAN ANTONIO, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
A	14910 STREICH RD , ELMENDORF, TX 78112	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
B	RICHTER , ELMENDORF, TX 78112	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
B	RICHTER , ELMENDORF, TX 78112	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
B	S INTERSTATE 37 , SAN ANTONIO, TX 78211	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
B	STREICH RD , SAN ANTONIO, TX 78112	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
B	DONOP RD , SAN ANTONIO, TX 78112	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
B	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
C	14895 DONOP RD , ELMENDORF, TX 78112	DAVIS MEL T	PO BOX 236	ELMENDORF, TX	78112
D	CHANNEL CAT , , 78112	SOUTHTON COVE RESIDENTIAL COMMUNITY INC	8200 PERRIN BEITEL SUITE 128	SAN ANTONIO, TX	78229
E	CHANNEL CAT , , TX 78112	KB HOMES LONE STAR LP	4800 FREDERICKSBURG RD	SAN ANTONIO, TX	78229
F	SOUTHTON RD , SAN ANTONIO, TX 78112	SMALL JOHN HART ET AL	514 BLUFFWOOD DR	SAN ANTONIO, TX	78216
G	14901 SOUTHTON RD , ELMENDORF, TX 78112	HIGUCHI INTERNATIONAL CORP	14901 SOUTHTON RD	ELMENDORF, TX	78112
H	14867 STREICH RD , ELMENDORF, TX 78112	DUELM MARION & FELIX DUELM JR	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
H	14687 STREICH RD , SAN ANTONIO, TX 78112	DUELM MARION & FELIX JR	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
H	14545 STREICH RD , SAN ANTONIO, TX 78112	DUELM MARION R	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
I	14835 STREICH RD , ELMENDORF, TX 78112	BRAUNE ADAM W JR	PO BOX 276	ELMENDORF, TX	78112
I	STREICH RD , SAN ANTONO, TX 78112	BRAUNE ADAM W JR	PO BOX 276	ELMENDORF, TX	78112
J	14737 STREICH RD , SAN ANTONIO, TX 78112	GILLIAM MARY FULLEN	306 LOST SPRINGS DR	FLORESVILLE, TX	78114
K	14325 STREICH RD , ELMENDORF, TX 78112	ALMARAZ RUBEN	14335 STREICH RD	ELMENDORF, TX	78112
K	14445 STREICH RD , ELMENDORF, TX 78112	ALMARAZ RUBEN &	14445 STREICH RD	ELMENDORF, TX	78112
K	15215 STREICH RD , ELMENDORF, TX 78112	ALMARAZ RUBEN	14445 STREICH RD	ELMENDORF, TX	78112
K	14455 STREICH RD , ELMENDORF, TX 78112	ALMARAZ RUBEN &	14445 STREICH RD	ELMENDORF, TX	78112
L	14403 STREICH RD , ELMENDORF, TX 78112	GUAJARDO FERNANDO JR	14403 STREICH RD	ELMENDORF, TX	78112
M	14405 STREICH RD , ELMENDORF, TX 78112	GUAJARDO SALVADOR JR	14405 STREICH RD	ELMENDORF, TX	78112
M	14363 STREICH RD , SAN ANTONIO, TX 78112	GUAJARDO SALVADOR B JR	14405 STREICH ROAD	ELMENDORF, TX	78112
N	14335 STREICH RD , SAN ANTONIO, TX 78112	LONGORIA MARK	14335 STREICH RD	ELMENDORF, TX	78112
O	14305 STREICH RD , ELMENDORF, TX 78112	STOLTE CHRIS & NICOLE	14305 STREICH RD LOT 1	ELMENDORF, TX	78112
P	14255 STREICH RD , SAN ANTONIO, TX 78112	CHAVEZ RUTH	14255 STREICH RD LOT 2	ELMENDORF, TX	78112
Q	14245 STREICH RD , ELMENDORF, TX 78112	REYES ROGELIO	14245 STREICH RD	ELMENDORF, TX	78112
R	14235 STREICH RD , SAN ANTONIO, TX 78112	CASTLE R LLC	4271 S FLORES	ELMENDORF, TX	78112
S	14221 STREICH RD , ELMENDORF, TX 78112	BLIND FISH HOLDINGS LLC	4146 STATHMORE DR	SAN ANTONIO, TX	78217
T	14007 OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	CANTU REYNALDO	243 W PALFREY ST	SAN ANTONIO, TX	78223
U	13942 OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	DELGADO ENTERPRISES 12 LLC	9912 S FOSTER RD	SAN ANTONIO, TX	78223
V	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	ALCOA INC	201 ISABELLA ST	PITTSBURGH, PA	15212
V	OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	ALCOA INC	201 ISABELLA ST	PITTSBURGH, PA	15212
W	14460 OLD CORPUS CHRISTI HWY , ELMENDORF, TX 78112	DAVIS MCCRARY PROPERTY TRUST	4606 COLORADO XING	AUSTIN, TX	78731
X	OLD CORPUS CHRISTI RD , ELMENDORF, TX 78112	JEN HOLDCO 23 LLC	680 5TH AVE FL 25	NEW YORK, NY	10019
Y		UNAVAILABLE			
Z	16015 SHADY FALLS RD , ELMENDORF, TX 78112	INTERTEK TESTING SERVICES NA INC	200 WESTLAKE PARK BLVD #400	HOUSTON, TX	77079
Z	16015 SHADY FALLS RD , ELMENDORF, TX 78112	INTERTEK TESTING SERVICES NA INC	200 WESTLAKE PARK BLVD #400	HOUSTON, TX	77079
AA	16979 SHADY FALLS RD , ELMENDORF, TX 78112	NIMORD RIFLE CLUB INC	16979 SHADY FALLS RD	ELMENDORF, TX	78112
BB	17039 SHADY FALLS RD , ELMENDORF, TX 78112	ANDERSON B H	17039 SHADY FALLS RD	ELMENDORF, TX	78112
CC	17451 SHADY FALLS RD , ELMENDORF, TX 78112	FER-NAR INVESTMENTS LLC	11415 BLUE WING RD	SAN ANTONIO, TX	78223
DD	SHADY FALLS RD , SAN ANTONIO, TX 78112	STEPHENSON DELIA G & BOB	100 ROLETO DR	SAN ANTONIO, TX	78213
EE	17791 SHADY FALLS RD , SAN ANTONIO, TX 78112	STEPP JAY & AVA	17791 SHADY FALLS RD LOT 1	ELMENDORF, TX	78112
FF	17791 SHADY FALLS RD , SAN ANTONIO, TX 78112	DELAROSA LUCILA E	17791 SHADY FALLS RD LOT 6	ELMENDORF, TX	78112
GG	SHADY FALLS RD , SAN ANTONIO, TX 78112	SANCHEZ CRUZ & ESPERANZA	PO BOX 214	ELMENDORF, TX	78112
HH	17791 SHADY FALLS RD , SAN ANTONIO, TX 78112	HERNANDEZ ARMANDO & MARIA &	235 EUREKA DR	SAN ANTONIO, TX	78223
II		UNAVAILABLE			
JJ		UNAVAILABLE			
KK	5493 LABUS RD , SAN ANTONIO, TX 78112	BAR W FARMS LLC	269 GENESEO RD	SAN ANTONIO, TX	78209
KK	5703 LABUS RD , SAN ANTONIO, TX 78112	BAR W FARMS LLC	269 GENESEO RD	SAN ANTONIO, TX	78209
LL	5595 LABUS RD , ELMENDORF, TX 78112	HORSING AROUND TRUST	5595 LABUS RD LOT 2	ELMENDORF, TX	78112
MM	5595 LABUS RD , ELMENDORF, TX 78112	RUSSELL ALLEN L	PO BOX 28	ELMENDORF, TX	78112
NN	LABUS RD , , TX 78112	ROZO CARLA	246 SAN ROMAN DR	SAN ANTONIO, TX	78213
OO	5353 LABUS RD , Elmendorf, TX 78112	GUZMAN PEDRO	123 W EMERSON AVE	SAN ANTONIO, TX	78226
PP	LABUS RD , , TX 78112	CERVANTES JOSE J &	4802 DICK GORDON DR	KIRBY, TX	78219
QQ	18525 DONOP RD , ELMENDORF, TX 78112	CAMPBELL REVOCABLE L/TR	5543 MERKENS DR	SAN ANTONIO, TX	78240
RR	18496 DONOP RD , ELMENDORF, TX 78112	SHAW HERBERT A & MARY E	18505 STREICH RD	ELMENDORF, TX	78112
RR	18505 STREICH RD , ELMENDORF, TX 78112	SHAW HERBERT A & MARY	18505 STREICH RD	ELMENDORF, TX	78112
RR	18385 STREICH RD , ELMENDORF, TX 78112	SHAW BRIAN A & COURTNEY L	18385 STREICH RD	ELMENDORF, TX	78112
RR	18415 STREICH RD , ELMENDORF, TX 78112	SHAW HERBERT & MARY	18505 STREICH RD	ELMENDORF, TX	78112
RR	18435 STREICH RD , ELMENDORF, TX 78112	SHAW HERBERT & MARY	18505 STREICH RD	ELMENDORF, TX	78112
RR	18405 STREICH RD , ELMENDORF, TX 78112	SHAW HERBERT A	18505 STREICH RD	ELMENDORF, TX	78112
SS	18405 STREICH RD , ELMENDORF, TX 78112	MILLER RONALD HAYES & CYNTHIA C	18405 STREICH RD	ELMENDORF, TX	78112
TT	18456 DONOP RD , ELMENDORF, TX 78112	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
TT	18456 DONOP RD , ELMENDORF, TX 78112	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
TT	DONOP RD , , TX 78112	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
UU	18405 DONOP RD , ELMENDORF, TX 78112	FULLER JOSEPH C SR	18424 SOUTHTON RD	ELMENDORF, TX	78112
VV	18863 DONOP RD , ELMENDORF, TX 78112	BORREGO RICHARD M &	18235 SOUTHTON RD	ELMENDORF, TX	78112
VV	S IH 37 , SAN ANTONIO, TX 78112	BORREGO RICHARD M	18235 SOUTHTON RD	ELMENDORF, TX	78112
WW	18235 DONOP RD , ELMENDORF, TX 78112	SHIPPEY DEBBIE L	18235 SOUTHTON RD	ELMENDORF, TX	78112
XX	INTERSTATE 37 S , , TX 78112	TALAMANTES JESUS & CAMILA	17940 INTERSTATE 37 S	ELMENDORF, TX	78112
XX	18132 INTERSTATE 37 S , Elmendorf, TX 78112	TALAMANTES JESUS & CAMILA	17940 INTERSTATE 37 S	ELMENDORF, TX	78112
YY	17812 INTERSTATE 37 S, ELMENDORF, TX 78112	MFSS GENESIS LLC	5716 W HIGHWAY 290 STE 101	AUSTIN, TX	78735
YY	17940 INTERSTATE 37 S , Elmendorf, TX 78112	MFSS GENESIS LLC	5716 W HIGHWAY 290 STE 101-181	AUSTIN, TX	78735
ZZ	S IH 37 , SAN ANTONIO, TX 78112	HERNANDEZ HOMER & ALMA G	20690 SPANISH GRANT RD	SAN ANTONIO, TX	78264

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: AFFECTED LANDOWNER MAP

SHEET 1 OF 2

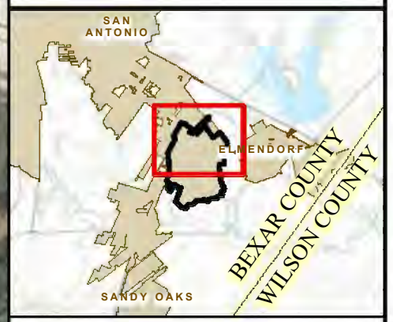
15290 STREICH RD, ELMENDORF, TX 78112



Legend

- Discharge Route
- Streams
- Outfall Area
- Property Boundary
- Adjacent Parcels
- Interstate Highway
- County Road
- Local Road

Aerial Source: Google Satellite Basemap



0 1,000 2,000

Feet

POWER ENGINEERS

Date: 12/20/2024

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Braunig_TPDES\0248452_CPS_Braunig_TPDES.aprx

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: AFFECTED LANDOWNER MAP

SHEET 2 OF 2

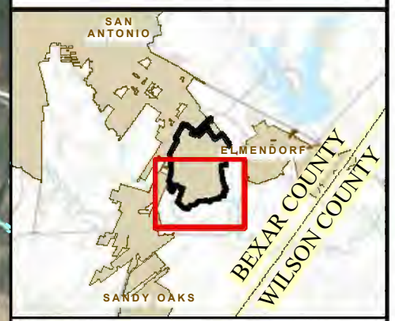
15290 STREICH RD, ELMENDORF, TX 78112



Legend

- Downstream Mile
- Dam Spillway
- Discharge Route
- Streams
- Outfall Area
- Property Boundary
- Adjacent Parcels
- Interstate Highway
- FM Road
- County Road
- Local Road

Aerial Source: Google Satellite Basemap



0 1,000 2,000

Feet

N

POWER ENGINEERS

Date: 12/20/2024

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Braunig_TPDES\0248452_CPS_Braunig_TPDES.aprx

ATTACHMENT – OUTFALL PHOTOGRAPHS

Braunig Outfall Photos

Intake Canal



Outfall 001 VHB1 & 2 discharge basins





Outfall 001 Avr(combined cycle) & VHB 3 discharge basin



Outfall 101 (demineralizer & reverse osmosis reject water)



Outfall 101 (demineralizer & reverse osmosis reject water)



Outfall 201







Outfall 401

Unit 1 box (VHB 1 floor & yard drains) Unit 2/3 box (VHB 2&3 floor & yard drains)





Outfalls 501 & 601



Outfall 501



Outfall 601
(roof drains off #1 dearator floor)



Outfall 701



Outfall 801



Outfall 901



Outfall 003



Up-stream-Tank Farm Catch Basin Outlet

Outfall 006



Outfall 007



Outfall 008



Outfall 011



Outfall 013









Outfall 016





Outfall 019







Outfall 015



Outfall 017



Outfall 018



ATTACHMENT – STORMWATER INFORMATION

STORMWATER INFORMATION

Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation

Construction/material storage areas: materials such as traveling water screen spare parts, pipes spare valves, spare motors, metal trench covers, spare grading, metal screens, scaffold tubes, miscellaneous parts for anchor bolt cages, pole structures lattice towers, and other miscellaneous maintenance and construction materials.

Chemical storage tanks

Fuel oil storage tanks

Truck unloading area

Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff

Materials stored in the construction/material storage are used for plant maintenance activities as well as construction projects. SWPPPs are developed and permit coverage obtained for construction projects prior to commencement. Exposure of metals is limited via storage on wooden pallets or beams.

Loading of chemical storage tanks and fuel oil storage tanks may result in exposure of the contents to precipitation runoff. However the loading areas are equipped with secondary containment as are the storage tanks themselves.

Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility

Construction/material storage is limited to strategically designated areas. Metal materials are stored on wooden pallets or beams. Chemical storage tanks, fuel storage tanks and loading areas are equipped with secondary containment. Stormwater captured in secondary containments is checked prior to release. An oil water separator and stormwater retention ponds, grassy swales and berms are also utilized on site. Additional protection is provided by sluice gates at multiple outfalls to prevent the discharge of oil into the lake if a spill does occur. Good housekeeping is practiced and there are regular preventative maintenance of the equipment at the facility.

Abesha Michael

From: james.robin@powereng.com
Sent: Thursday, April 24, 2025 10:42 AM
To: Abesha Michael
Cc: sljohnson@cpsenergy.com
Subject: RE: Application to Amend Permit No. WQ0001515000 - Notice of Deficiency Letter
Attachments: CPSE Braunig TPDES Renewal Application 2025_revised page 9.pdf

Good morning, Ms. Michael –

Thank you for your telephone call earlier today. As we discussed, the correct public viewing location is on the 6th floor of 500 McCullough Ave., San Antonio, TX 78215. I have updated the application page 9 and attached the revised page to this email message.

Please let me know if you have any questions or need any additional information.

Thank you,
James Robin

JAMES ROBIN, P.E.
ENVIRONMENTAL ENGINEER
WATER AND WASTE DEPARTMENT

726.842.9715
726.228.3701 cell

POWER Engineers
Member of WSP
www.powereng.com



From: Robin, James
Sent: Thursday, April 10, 2025 8:29 AM
To: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Cc: sljohnson@cpsenergy.com
Subject: RE: Application to Amend Permit No. WQ0001515000 - Notice of Deficiency Letter

Dear Ms. Michael –

In response to your March 31, 2025 Notice of Deficiency (NOD) letter and our additional clarifying discussion on April 2, 2025, please find the following files attached to this email message:

- NOD Response Letter_04_08_2025.pdf
- Affected Landowner Mailing Labels_04_08_2025.docx
- Industrial Discharge Amendment Spanish NORI_04-08-2025.docx

If you have any questions or need any additional information, please let me know.

Sincerely,
James Robin

JAMES ROBIN, P.E.
ENVIRONMENTAL ENGINEER
WATER AND WASTE DEPARTMENT

726.842.9715
726.228.3701 cell

POWER Engineers
Member of WSP
www.powereng.com



From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Monday, March 31, 2025 1:59 PM
To: Robin, James <james.robin@powereng.com>
Cc: sljohnson@cpsenergy.com
Subject: [EXTERNAL] Application to Amend Permit No. WQ0001515000 - Notice of Deficiency Letter

CAUTION: This Email is from an **EXTERNAL** source. **STOP**. **THINK** before you CLICK links or OPEN attachments.

Dear Mr. Robin:

The attached Notice of Deficiency letter sent on March 31, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by April 14, 2025.

Thank you,



Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912
Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey [tceq.texas.gov]

Organization Name: CPS Energy

Mailing Address: 500 Mc Cullough Ave. Mail Drop RT0601 City/State/Zip: San Antonio, TX 78215

Phone No: (210) 353-2158 Email: GRTieken@cpsenergy.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

☒ E-mail: sljohnson@cpsenergy.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

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

Title: Environmental Analyst Credential: Click to enter text.

Organization Name: CPS Energy

Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

d. Public Viewing Location Information

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

Public building name: City Public Service of San Antonio Main Office Location within the building: 6th floor

Physical Address of Building: 500 McCullough Ave.

City: San Antonio, TX 78215 County: Bexar

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.

POWER ENGINEERS, INC.
85 N.E. LOOP 410, SUITE 207, SAN ANTONIO, TX 78216 USA | 210-446-1071

April 8, 2025

Ms. Abesha Michael
Texas Commission on Environmental Quality
Water Quality Division
Support Section (MC-148)
12100 Park 35 Circle
Austin, Texas 78753

Subject: **Notice of Deficiency and Notice of Receipt of Application**
Application to Renew Permit No: WQ0001515000 with Major Amendment
V.H. Braunig Power Station
CN603174244; RN100217835

Dear Ms. Michael

Thank you for the opportunity to review and respond to the Texas Commission on Environmental Quality's (TCEQ's) NOD letter, dated March 31, 2025. Each item has been addressed in alignment with the letter and our additional clarifying discussion on April 2, 2025.

Request Item 1
Section III, item 39 on page 2 of the Core Data Form (CDF): Thank you for addressing this item. However, the Permits number is missing. Please include the Permits number that will be affected by the updates and submit a revised page 3.

Response to Item 1
Please find a revised Core Data Form page 3 attached behind this letter. Permit numbers were copied to the form from a TCEQ Central Registry search, a copy of which was provided in the application.

Request Item 2
Item 1A, Application Information, on page 3 of the administrative report: Thank you for addressing this item. However, the applicant is 'City Public Service of San Antonio' not 'VH Braunig Power Station'. Please submit a revised page 3.

Response Item 2
Please find a revised Administrative Report page 3 attached behind this letter.

Request Item 3
Item 10D, Owner of the treatment facility, on page 9 of the administrative report: Thank you for addressing this item. However, the owner of the treatment facility must be the applicant which is City Public Service of San Antonio. Please submit an updated page 9.

Response to Item 3
Please find a revised Administrative Report page 9 attached behind this letter.

Request Item 4
Item 10F, Owner of the land where treatment facility is located, on page 10 of the administrative report: Thank you for addressing this item. However, the application indicates the owner of the land where the treatment facility is CPS Energy. If the owner of the land is not the applicant which is 'City Public Service of San Antonio', we need a deed or long-term lease agreement signed by both parties. If the applicant is the owner of the land, please submit a revised page 10.

Response to Item 4
Please find a revised Administrative Report page 10 attached behind this letter.

Request Item 5
Item 1A, Affected Landowners Information on page 14 of the administrative report 1.1: Thank you for the affected landowner's map. However, the map is insufficient because it does not show/label the facility boundary. Please submit a revised map showing the facility boundary within the applicant property boundary and delineate property owner 'A' and 'B' and please don't use google photo map.

Response to Item 5
Please find a revised affected landowner map attached to this letter.

Request Item 6
Item 1B, Affected Landowners Information on page 14 of the administrative report 1.1: Thank you for the cross-referenced mailing list. However, the mailing list contains the name of the property owner column. Please submit an updated mailing list.

Response to Item 6
Please find a revised affected landowner cross-referenced list attached to this letter.

Request Item 7
Item 1B, Affected Landowners Information on page 14 of the administrative report 1.1: Thank you for the affected landowners mailing labels. Please email the labels in Microsoft Word Format with the response to this letter. Please use the mailing labels in Avery 5160 label format (3 columns across, 10 columns down). To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included the list, and no punctuation.

Response to Item 7
Please find the affected landowner mailing labels in Microsoft Word format attached separately to this email message.

Request Item 8
The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, which owns a which owns a steam electric generating facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001515000 (EPA I.D. No. TX0063690) to authorize adding construction stormwater to specific outfalls, Reducing stormwater monitoring frequency, Changing sampling requirements for outfalls that are representative of each other, adding extended chlorination or alternate techniques if necessary for zebra mussel mitigation. The facility is located at 15290 Streich Road, near the city of Elmendorf, in Bexar County, Texas 78112. The discharge route is from the plant site to Braunig Lake, thence to Arroyo Seco; thence to Upper San Antonio River (Pending RWA confiramtion). TCEQ received this application on March 27, 2025. The permit application will be available for viewing and copying at City Public Service of San Antonio Main Office, 4th floor, 500 McCullough Avenue, San Antonio, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.382777,29.258888&level=18

Further information may also be obtained from City Public Service of San Antonio at the address stated above or by calling Ms. Summer Johnson, Environmental Analyst, CPS Energy, at (210) 353-2770.

Response to Item 8

The portion of the NORI provided indicates that the application is to “amend” the TPDES permit, but the application is to “renew and amend” the permit. The text has been changed to reflect this, as well as to correct several grammatical errors. The NORI text should read as follows:

APPLICATION. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, which owns a which owns a steam electric generating facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew and amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001515000 (EPA I.D. No. TX0063690) to authorize adding construction stormwater to specific outfalls, reducing stormwater monitoring frequency, changing sampling requirements for outfalls that are representative of each other, and adding extended chlorination or alternate techniques if necessary for zebra mussel mitigation. The facility is located at 15290 Streich Road, near the city of Elmendorf, in Bexar County, Texas 78112. The discharge route is from the plant site to Braunig Lake, thence to Arroyo Seco, thence to Upper San Antonio River. TCEQ received this application on March 27, 2025. The permit application will be available for viewing and copying at City Public Service of San Antonio Main Office, 6th floor, 500 McCullough Avenue, San Antonio, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.382777,29.258888&level=18

Further information may also be obtained from the City Public Service of San Antonio at the address stated above or by calling Ms. Summer Johnson, Environmental Analyst, CPS Energy, at (210) 353-2770.

Request Item 9

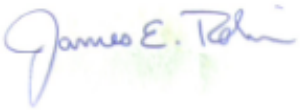
The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Response to Item 9

The revised NORI has been translated to Spanish and is attached separately to this email message in Microsoft Word format.

If you have any questions regarding this submittal or if you require additional information, please call me at 726-842-9715.

Sincerely,



James Robin, P.E.
Environmental Engineer

c:
Summer Johnson, City Public Service of San Antonio

Attachments:

Revised Core Data Form Page 3
Revised Administrative Report Page 3
Revised Administrative Report Page 9
Revised Administrative Report Page 10
Revised Affected Landowner Map
Revised Affected Landowner Cross-referenced List
Affected Landowner Mailing Labels (attached separately in Microsoft Word format)
NORI Spanish Translation (attached separately in Microsoft Word format)

ATTACHMENT – REVISED CORE DATA FORM PAGE 3

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☒ Emissions Inventory Air	☒ Industrial Hazardous Waste
			BG0186I	TXD000726257
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☒ Petroleum Storage Tank	☐ PWS
	PSDTX907		39159	
☐ Sludge	☐ Storm Water	☒ Title V Air	☐ Tires	☐ Used Oil
		BG0186I		
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0001515000 (TX0063690)			

SECTION IV: Preparer Information

40. Name:	Summer Johnson	41. Title:	Environmental Analyst

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 353-2770		( ) -	sljohnson@cpsenergy.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 Public Service of San Antonio	Job Title:	Director, Environmental
Name *(In Print)*:	Gregg Tieken	Phone:	(210) 353- 2158
Signature:	Gregg Tieken	Date:	4/2/25

ATTACHMENT – REVISED ADMINISTRATIVE REPORT PAGE 3

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

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

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

Applicant Name: City Public Service of San Antonio

Permit No.: WQ0001515000

EPA ID No.: TX0063690

Expiration Date: September 29, 2025

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☒ Active ☐ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☐ New

☐ Renewal with changes ☐ Renewal without changes

☒ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Please refer to Description of Permit Changes attachment

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

ATTACHMENT – REVISED ADMINISTRATIVE REPORT PAGE 9

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No ☐ N/A

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

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: Plain Language Summary

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: Public Involvement Plan Form

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN100217835

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

b. Name of project or site (the name known by the community where located): V. H. Braunig Power Station

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

☒ Yes ☐ No ☐ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: City Public Service of San Antonio

ATTACHMENT – REVISED ADMINISTRATIVE REPORT PAGE 10

Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296
Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com

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

f. Owner of land where treatment facility is or will be: City Public Service of San Antonio
Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.
or Organization Name: Click to enter text.
Mailing Address: P.O. Box 1771 Mail Drop: 100406 City/State/Zip: San Antonio, TX 78296
Phone No: (210) 353-2770 Email: sljohnson@cpsenergy.com
Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

g. Owner of effluent TLAP disposal site (if applicable): N/A
Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.
or Organization Name: Click to enter text.
Mailing Address: Click to enter text. City/State/Zip: Click to enter text. Phone No: Click to enter text. Email: Click to enter text.
Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):
Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.
or Organization Name: Click to enter text.
Mailing Address: Click to enter text. City/State/Zip: Click to enter text. Phone No: Click to enter text. Email: Click to enter text.
Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

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

a. Is the facility located on or does the treated effluent cross Native American Land?
☐ Yes ☒ No

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

☒ One-mile radius
☒ Applicant's property boundaries
☒ Labeled point(s) of discharge
☐ Effluent disposal site boundaries
☒ Three-miles downstream information
☐ Treatment facility boundaries
☒ Highlighted discharge route(s)
☒ All wastewater ponds

ATTACHMENT – REVISED AFFECTED LANDOWNER MAP

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: AFFECTED LANDOWNER MAP

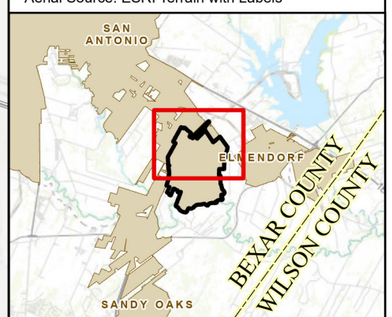
SHEET 1 OF 2

15290 STREICH RD, ELMENDORF, TX 78112

Legend

- Discharge Route
- Streams
- Outfall Area
- Facility / Property Boundary
- Adjacent Parcels
- Interstate Highway
- County Road
- Local Road

Aerial Source: ESRI Terrain with Labels



0 1,000 2,000
Feet

POWER ENGINEERS

Date: 4/10/2025

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Braunig_TPDES\0248452_CPS_Braunig_TPDES.aprx

CPS ENERGY – V.H. BRAUNIG POWER STATION

FIGURE 2: AFFECTED LANDOWNER MAP

SHEET 2 OF 2

15290 STREICH RD, ELMENDORF, TX 78112

Outfall Area

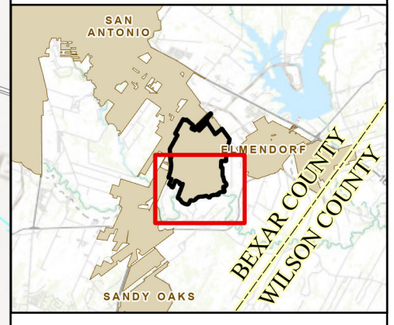
Braunig Lake

Braunig Lake Park

Legend

- Downstream Mile
- Dam Spillway
- Discharge Route
- Streams
- Outfall Area
- Facility / Property Boundary
- Adjacent Parcels
- Interstate Highway
- FM Road
- County Road
- Local Road

Aerial Source: ESRI Terrain with Labels



0 1,000 2,000

Feet

POWER ENGINEERS

Date: 4/10/2025

Path: G:\Projects\0248452_CPS_Energy_Braunig\Apps\PRO\0248452_CPS_Braunig_TPDES\0248452_CPS_Braunig_TPDES.aprx

ATTACHMENT – REVISED AFFECTED LANDOWNER CROSS-REFERENCED LIST

MapID	Property Owner	Owner Address	City	ZIP
1	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
1	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
1	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
1	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
1	CITY PUBLIC SERVICE BOARD	PO BOX 1771	SAN ANTONIO, TX	78296
2	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
2	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
2	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
2	CITY OF SAN ANTONIO	PO BOX 839966	SAN ANTONIO, TX	78283
3	DAVIS MEL T	PO BOX 236	ELMENDORF, TX	78112
4	SOUTHTON COVE RESIDENTIAL COMMUNITY INC	8200 PERRIN BEITEL SUITE 128	SAN ANTONIO, TX	78229
5	KB HOMES LONE STAR LP	4800 FREDERICKSBURG RD	SAN ANTONIO, TX	78229
6	SMALL JOHN HART ET AL	514 BLUFFWOOD DR	SAN ANTONIO, TX	78216
7	HIGUCHI INTERNATIONAL CORP	14901 SOUTHTON RD	ELMENDORF, TX	78112
8	DUELM MARION & FELIX DUELM JR	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
8	DUELM MARION & FELIX JR	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
8	DUELM MARION R	5011 GENE CERNAN DR	SAN ANTONIO, TX	78219
9	BRAUNE ADAM W JR	PO BOX 276	ELMENDORF, TX	78112
9	BRAUNE ADAM W JR	PO BOX 276	ELMENDORF, TX	78112
10	GILLIAM MARY FULLEN	306 LOST SPRINGS DR	FLORESVILLE, TX	78114
11	ALMARAZ RUBEN	14335 STREICH RD	ELMENDORF, TX	78112
11	ALMARAZ RUBEN &	14445 STREICH RD	ELMENDORF, TX	78112
11	ALMARAZ RUBEN	14445 STREICH RD	ELMENDORF, TX	78112
11	ALMARAZ RUBEN &	14445 STREICH RD	ELMENDORF, TX	78112
12	GUAJARDO FERNANDO JR	14403 STREICH RD	ELMENDORF, TX	78112
13	GUAJARDO SALVADOR JR	14405 STREICH RD	ELMENDORF, TX	78112
13	GUAJARDO SALVADOR B JR	14405 STREICH ROAD	ELMENDORF, TX	78112
14	LONGORIA MARK	14335 STREICH RD	ELMENDORF, TX	78112
15	STOLTE CHRIS & NICOLE	14305 STREICH RD LOT 1	ELMENDORF, TX	78112
16	CHAVEZ RUTH	14255 STREICH RD LOT 2	ELMENDORF, TX	78112
17	REYES ROGELIO	14245 STREICH RD	ELMENDORF, TX	78112
18	CASTLE R LLC	4271 S FLORES	ELMENDORF, TX	78112
19	BLIND FISH HOLDINGS LLC	4146 STATHMORE DR	SAN ANTONIO, TX	78217
20	CANTU REYNALDO	243 W PALFREY ST	SAN ANTONIO, TX	78223
21	DELGADO ENTERPRISES 12 LLC	9912 S FOSTER RD	SAN ANTONIO, TX	78223
22	ALCOA INC	201 ISABELLA ST	PITTSBURGH, PA	15212
22	ALCOA INC	201 ISABELLA ST	PITTSBURGH, PA	15212
23	DAVIS MCCRARY PROPERTY TRUST	4606 COLORADO XING	AUSTIN, TX	78731
24	JEN HOLDCO 23 LLC	680 5TH AVE FL 25	NEW YORK, NY	10019
25	Data Unavailable			
26	INTERTEK TESTING SERVICES NA INC	200 WESTLAKE PARK BLVD #400	HOUSTON, TX	77079
26	INTERTEK TESTING SERVICES NA INC	200 WESTLAKE PARK BLVD #400	HOUSTON, TX	77079
27	NIMORD RIFLE CLUB INC	16979 SHADY FALLS RD	ELMENDORF, TX	78112
28	ANDERSON B H	17039 SHADY FALLS RD	ELMENDORF, TX	78112
29	FER-NAR INVESTMENTS LLC	11415 BLUE WING RD	SAN ANTONIO, TX	78223
30	STEPHENSON DELIA G & BOB	100 ROLETO DR	SAN ANTONIO, TX	78213
31	STEPP JAY & AVA	17791 SHADY FALLS RD LOT 1	ELMENDORF, TX	78112
32	DELAROSA LUCILA E	17791 SHADY FALLS RD LOT 6	ELMENDORF, TX	78112
33	SANCHEZ CRUZ & ESPERANZA	PO BOX 214	ELMENDORF, TX	78112
34	HERNANDEZ ARMANDO & MARIA &	235 EUREKA DR	SAN ANTONIO, TX	78223
35	Data Unavailable			
36	Data Unavailable			
37	BAR W FARMS LLC	269 GENESEO RD	SAN ANTONIO, TX	78209
37	BAR W FARMS LLC	269 GENESEO RD	SAN ANTONIO, TX	78209
38	HORSING AROUND TRUST	5595 LABUS RD LOT 2	ELMENDORF, TX	78112
39	RUSSELL ALLEN L	PO BOX 28	ELMENDORF, TX	78112
40	ROZO CARLA	246 SAN ROMAN DR	SAN ANTONIO, TX	78213
41	GUZMAN PEDRO	123 W EMERSON AVE	SAN ANTONIO, TX	78226
42	CERVANTES JOSE J &	4802 DICK GORDON DR	KIRBY, TX	78219
43	CAMPBELL REVOCABLE L/TR	5543 MERKENS DR	SAN ANTONIO, TX	78240
44	SHAW HERBERT A & MARY E	18505 STREICH RD	ELMENDORF, TX	78112
44	SHAW HERBERT A & MARY	18505 STREICH RD	ELMENDORF, TX	78112
44	SHAW BRIAN A & COURTNEY L	18385 STREICH RD	ELMENDORF, TX	78112
44	SHAW HERBERT & MARY	18505 STREICH RD	ELMENDORF, TX	78112
44	SHAW HERBERT & MARY	18505 STREICH RD	ELMENDORF, TX	78112

44	SHAW HERBERT A	18505 STREICH RD	ELMENDORF, TX	78112
45	MILLER RONALD HAYES & CYNTHIA C	18405 STREICH RD	ELMENDORF, TX	78112
46	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
46	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
46	CHANACK LINDA MARIE	18456 DONOP RD	ELMENDORF, TX	78112
47	FULLER JOSEPH C SR	18424 SOUTHTON RD	ELMENDORF, TX	78112
48	BORREGO RICHARD M &	18235 SOUTHTON RD	ELMENDORF, TX	78112
48	BORREGO RICHARD M	18235 SOUTHTON RD	ELMENDORF, TX	78112
49	SHIPPEY DEBBIE L	18235 SOUTHTON RD	ELMENDORF, TX	78112
50	TALAMANTES JESUS & CAMILA	17940 INTERSTATE 37 S	ELMENDORF, TX	78112
50	TALAMANTES JESUS & CAMILA	17940 INTERSTATE 37 S	ELMENDORF, TX	78112
51	MFSS GENESIS LLC	5716 W HIGHWAY 290 STE 101	AUSTIN, TX	78735
51	MFSS GENESIS LLC	5716 W HIGHWAY 290 STE 101-181	AUSTIN, TX	78735
52	HERNANDEZ HOMER & ALMA G	20690 SPANISH GRANT RD	SAN ANTONIO, TX	78264

ATTACHMENT – AFFECTED LANDOWNER MAILING LABELS (ATTACHED SEPARATELY IN MICROSOFT WORD FORMAT)

ATTACHMENT – NORI SPANISH TRANSLATION (ATTACHED SEPARATELY IN MICROSOFT WORD FORMAT)

Abesha Michael

From: james.robin@powereng.com
Sent: Thursday, April 10, 2025 8:29 AM
To: Abesha Michael
Cc: sljohnson@cpsenergy.com
Subject: RE: Application to Amend Permit No. WQ0001515000 - Notice of Deficiency Letter
Attachments: NOD Response Letter_04_08_2025.pdf; Affected Landowner Mailing Labels_04_08_2025.docx; Industrial Discharge Amendment Spanish NORI_04-08-2025.docx

Dear Ms. Michael –

In response to your March 31, 2025 Notice of Deficiency (NOD) letter and our additional clarifying discussion on April 2, 2025, please find the following files attached to this email message:

- NOD Response Letter_04_08_2025.pdf
- Affected Landowner Mailing Labels_04_08_2025.docx
- Industrial Discharge Amendment Spanish NORI_04-08-2025.docx

If you have any questions or need any additional information, please let me know.

Sincerely,
James Robin

JAMES ROBIN, P.E.
ENVIRONMENTAL ENGINEER
WATER AND WASTE DEPARTMENT

726.842.9715
726.228.3701 cell

POWER Engineers
Member of WSP
www.powereng.com



From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Monday, March 31, 2025 1:59 PM
To: Robin, James <james.robin@powereng.com>
Cc: sljohnson@cpsenergy.com
Subject: [EXTERNAL] Application to Amend Permit No. WQ0001515000 - Notice of Deficiency Letter

CAUTION: This Email is from an **EXTERNAL** source. **STOP**. **THINK** before you CLICK links or OPEN attachments.

Dear Mr. Robin:

The attached Notice of Deficiency letter sent on March 31, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by April 14, 2025.

Thank you,

Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912
Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey [tceq.texas.gov]

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

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 603174244		RN 100217835

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	4/2/2025

☐ 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 Public Service of San Antonio

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
	17460020716	746002071	

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:

P.O. Box 1771

City	San Antonio	State	TX	ZIP	78296	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	GRTieken@CPSEnergy.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(210) 353-2158		( ) -

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.)*

V.H. Braunig Power Station

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	15290 Streich Road							
	City	Elmendorf	**State**	TX	**ZIP**	78112	**ZIP + 4**	9685
24. County	Bexar							

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

25. Description to Physical Location:	Approximately 2.75 miles northwest of the City of Elmendorf				
26. Nearest City			**State**		**Nearest ZIP Code**
Elmendorf			TX		78112

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:	29.256478		**28. Longitude (W) In Decimal:**	-98.389939	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	15	23.32	98	23	23.781

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)
4911	4931	22111	221119

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

Power Generation

34. Mailing Address:	**City Public Service of San Antonio**							
	P.O. Box 1771							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78296**	**ZIP + 4**	
35. E-Mail Address:	**GRTieken@CPSEnergy.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(210) 353-2158		( ) -

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
			BG0186I	TXD000726257
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☒ Petroleum Storage Tank	☐ PWS
	PSDTX907		39159	
☐ Sludge	☐ Storm Water	☒ Title V Air	☐ Tires	☐ Used Oil
		BG0186I		
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0001515000 (TX0063690)			

SECTION IV: Preparer Information

40. Name:	Summer Johnson	41. Title:	Environmental Analyst

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(210) 353-2770		( ) -	sljohnson@cpsenergy.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 Public Service of San Antonio	Job Title:	Director, Environmental
Name *(In Print)*:	Gregg Tieken	Phone:	(210) 353- 2158
Signature:	Gregg Tieken	Date:	4/2/25

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 PERMISO MODIFICACION

PERMISO NO. WQ0001515000

SOLICITUD. City Public Service of San Antonio, P.O. Box 1771, San Antonio, Texas 78296, propietaria de una planta generadora de energía eléctrica por vapor, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación y enmienda del Permiso No. WQ0001515000 (EPA I.D. No. TX0063690) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de aguas pluviales de construcción a desembocaduras específicas, reducir la frecuencia de monitoreo de aguas pluviales, cambiar los requisitos de muestreo para las desembocaduras que sean representativas entre sí, y agregar cloración extendida o técnicas alternas, si es necesario, para la mitigación de mejillones cebra. La planta está ubicada en 15290 Streich Road, cerca de la ciudad de Elmendorf, en el Condado de Bexar, Texas 78112. La ruta de descarga es del sitio de la planta a el Lago Braunig, de allí a Arroyo Seco, luego al curso superior del Rio San Antonio. La TCEQ recibió esta solicitud el día 27 de marzo del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la oficina principal de City Public Service of San Antonio, localizada en el 6to piso, 500 McCullough Avenue, San Antonio, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente 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=-98.382777,29.258888&level=18

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

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

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

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. 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.

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 City Public Services of San Antonio a la dirección indicada arriba o llamando a Sra. Summer Johnson, Analista Ambiental, CPS Energy, al (210) 353-2770.

Fecha de emisión _____ *[Date notice issued]*

TPDES PERMIT NO.
WQ0001515000
[For TCEQ office use only -
EPA I.D. No. TX0063690]

This major amendment replaces TPDES Permit No. WQ0001515000, issued on September 29, 2020.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City Public Service of San Antonio

whose mailing address is

P.O. Box 1771
San Antonio, Texas 78296

is authorized to treat and discharge wastes from V.H. Braunig Power Station, a steam electric generating plant consisting of three conventional gas steam units, one combined-cycle unit, and four simple cycle dual fuel units (SIC 4911)

located at 15290 Streich Road, near the City of Elmendorf, in Bexar County, Texas 78112

to Braunig Lake, thence to Arroyo Seco, thence to Upper San Antonio River in Segment No. 1911 of the San Antonio River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:

For the Commission

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge once-through cooling water [1], previously monitored effluents (PMEs; low volume waste sources, non-contact cooling water from the evaporative coolers, vault water, condensate water, water box drainage, wash water, water treatment wastes, cooling water, quench water, stormwater associated with construction activity and material/product storage area, and stormwater runoff), construction activity and material/product storage area, and stormwater runoff, vault water, and stormwater runoff [2] subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 1320 million gallons per day (MGD). The daily maximum flow shall not exceed 1340 MGD.

Effluent Characteristics	Discharge Limitations					Minimum Self-Monitoring Requirements	
	Daily Average		Daily Maximum		Single Grab	Report Daily Average and Daily Maximum	
	lbs/day	mg/L	lbs/day	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	1320 MGD		1340 MGD		N/A	1/day	Record [3]
Temperature [4] (degrees Fahrenheit, °F)	Report °F		Report °F		N/A	Continuous	In-Situ [3]
Free Available Chlorine [5]	184	0.2	459	0.5	0.5	1/week [7]	Grab [3,8]
Free Available Chlorine [5, 6]	N/A	0.2	N/A	0.25	0.25	1/week [7]	Grab [3,8]
Total Residual Chlorine [5]	N/A	N/A	1469	0.2	0.2	1/week [7]	Grab [3,8]
Total Residual Chlorine [5, 6]	N/A	N/A	N/A	0.1	0.1	1/week [7]	Grab [3,8]
Total Dissolved Solids [9]	N/A	N/A	N/A	Report	N/A	1/6 months	Grab [3]
Chloride [9]	N/A	N/A	N/A	Report	N/A	1/6 months	Grab [3]
Sulfate [9]	N/A	N/A	N/A	Report	N/A	1/6 months	Grab [3]

[1] See Other Requirement No. 8.
[2] See Other Requirement No. 12.
[3] See Other Requirement No. 14. Flow may be calculated using pump curve data and pump records.
[4] See Other Requirement No. 19.
[5] See Other Requirement No. 4 or 6.
[6] Upon notification of Zebra Mussel mitigation plan (Other Requirement No. 22) and thereafter to the expiration date of the permit.
[7] Samples shall be representative of periods of chlorination.
[8] Since more than one source is associated with this particular waste category, grab samples from each source shall be combined into a single flow-weighted sample for chlorine analysis. See Other Requirement 14.
[9] See Other Requirement No. 17 for reporting frequency.
[10] pH analysis and reporting shall be conducted in accordance with Other Requirement No. 15.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/week, by grab sample [3,10].

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 001, where once-through cooling water, vault water, stormwater runoff, and previously monitored effluents (PMEs) are discharged into Braunig Lake. See Other Requirement No. 14 for sampling locations and requirements.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge low volume waste sources [1], wash water [2], vault water, water treatment wastes [3], and stormwater runoff [4] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	Report MGD	Report MGD	N/A	1/day [5]	Estimate
Total Suspended Solids	30	100	100	1/week [5]	Grab [6]
Oil and Grease	15	20	20	1/week [5]	Grab [6]

[1] See Other Requirement Nos. 5 and 15.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 20.
[4] See Other Requirement No. 12.
[5] When discharge occurs.
[6] Grab samples from each effluent monitoring sample location (a and b) shall be either physically or arithmetically composited into a single flow-weighted sample for analysis and reporting.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

3. Effluent monitoring samples shall be taken at the following location: At Outfall 101 [comprised of two outlets (a and b) discharging into the intake canal], prior to mixing with any other waters.

   Outlet a: after the commingling of low volume waste sources, wash water, vault water, and stormwater runoff, at the neutralization basin discharge pipe sample port; and

   Outlet b: At the reverse osmosis reject water sample port located north of the neutralization basin and east of the administrative offices.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge low volume waste sources [1], non-contact cooling water from the evaporative coolers, condensate water, water box drainage, vault water, cooling water, quench water, wash water [2], and stormwater from secondary containment and area stormwater runoff [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	Report MGD	Report MGD	N/A	1/day [4]	Estimate
Total Suspended Solids	30	100	100	1/week [4]	Grab
Oil and Grease	15	20	20	1/week [4]	Grab

[1] See Other Requirement No. 5.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 12.
[4] When discharge occurs.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/week [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 201, where effluent is discharged into the AVR Circulating Water Box, after the commingling of all wastewaters and prior to mixing with any other waters.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge low volume waste sources [1], stormwater runoff [2], vault water, wash water [3], stormwater from secondary containment, and stormwater associated with construction activity and material/product storage area [4] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	Report MGD	Report MGD	N/A	1/day [7]	Estimate
Total Suspended Solids	30	100	100	1/week [7]	Grab [6,8]
Oil and Grease	15	20	20	1/week [5, 7]	Grab [6,8]

[1] See Other Requirement No. 5.
[2] See Other Requirement No. 12.
[3] See Other Requirement No. 21.
[4] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[5] See Other Requirement No. 11.
[6] See Other Requirement No. 15.
[7] When discharge occurs.
[8] Grab samples from each effluent monitoring sample location (a through e) shall be either physically or arithmetically composited into a single flow-weighted sample for analysis and reporting.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/week [7] by grab sample [6].
3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
4. Effluent monitoring samples shall be taken at the following location: At Outfall 401 [comprised of five outlets (a, b, c, d and e) discharging into the intake canal], prior to mixing with any other waters.

   Outlet a: where effluent is discharged from VHB1 and sampled utilizing station submerged pump and piping, prior to mixing with any other waters;
   Outlet b: where effluent is discharged from VHB2 and VHB3 and sampled utilizing station submerged pump and piping, prior to mixing with any other waters;
   Outlet c: VHB1, boiler blowdown at the water chemistry station;
   Outlet d: VHB2, boiler blowdown at the water chemistry station; and
   Outlet e: VHB3, boiler blowdown at the water chemistry station.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], wash water [2], condensate tank drainage, vault water, stormwater from secondary containment, and stormwater associated with construction activity and material/product storage area [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [4]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [4]	Grab
Oil and Grease	N/A	15	15	1/6 months [4]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[4] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations: At Outfall 501, at the drainage pipe, on the northwest bank of discharge canal #1, before discharging via Outfall 001 into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], wash water [2], vault water, and condensate tank drainage subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [3]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [3]	Grab
Oil and Grease	N/A	15	15	1/6 months [3]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [3], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations: At Outfall 601, at the drainage ditch, on the northeast bank of discharge canal #1, before discharging via Outfall 001 into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], wash water [2], vault water, water treatment wastes [3], non-contact cooling water from the evaporative coolers, stormwater from secondary containment, and stormwater associated with construction activity and material/product storage area [4] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [5]	Estimate
Total Suspended Solids	N/A	Report	N/A	1/6 month [5]	Grab
Chemical Oxygen Demand	N/A	200	200	1/6 month [5]	Grab
Oil and Grease	N/A	15	15	1/6 month [5]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 20.
[4] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[5] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/6 months [5], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 701, after the concrete drainage structure, north of the intake canal, and northeast side of the plant, before discharge via the intake canal of Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge low volume waste sources [1], vault water, cooling water, condensate water, wash water [2], stormwater from secondary containment, and stormwater runoff [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	Report MGD	Report MGD	N/A	1/day [4]	Estimate
Total Suspended Solids	30	100	100	1/week [4]	Grab
Oil and Grease	15	20	20	1/week [4]	Grab

[1] See Other Requirement No. 5.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 12.
[4] When discharge occurs.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/week [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 801, which originates at Lee East and discharges at V.H. Braunig 1 (VHB1), prior to mixing with any other waters.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff (from a concrete drainage area) [1], wash water [2], vault water, and stormwater associated with construction activity and material/product storage area [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [4]	Estimate
Total Suspended Solids	N/A	Report	N/A	1/6 months [4]	Grab
Chemical Oxygen Demand	N/A	200	200	1/6 months [4]	Grab
Oil and Grease	N/A	20	20	1/6 months [4]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[4] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 10.0 standard units and shall be monitored 1/6 months [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 901, where effluent is discharged from the concrete drainage area, before discharging into the inlet canal of Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], stormwater associated with construction activity and material/product storage area [2], vault water, stormwater from secondary containment, and stormwater from a fuel loading and off-loading area subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [3]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [3]	Grab
Oil and Grease	N/A	15	15	1/6 months [3]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 18 for additional stormwater from construction activities requirements.
[3] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [3], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations: At Outfall 003, where effluent is discharged from the final catch basin discharge pipe, before discharge into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], stormwater from secondary containment, stormwater associated with construction activity and material/product storage area [2], stormwater from a fuel loading and off-loading area, condensate tank drainage, condensate water, vault water, and wash water [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [4]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [4]	Grab
Oil and Grease	N/A	15	15	1/6 months [4]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[3] See Other Requirement No. 21.
[4] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations:

   At Outfall 006, after the concrete drainage structure, at the northwest corner of facility area, prior to discharge into Braunig Lake.

   At Outfall 007, after the concrete drainage structure weir, on the southwest side of the switchyard.

   At Outfall 008, after the concrete drainage structure weir, southwest of the road by the natural gas house, prior to discharge into Braunig Lake.

   At Outfall 011, at the designated sample collection point, southeast of the welding and GMS building, prior to discharge into Braunig Lake.

   At Outfall 013, at the sample vault, south of the inlet, before commingling with screenwash water, prior to discharge into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], vault water, and stormwater associated with construction activity and material/product storage area [2] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [3]	Estimate [4]
Chemical Oxygen Demand	N/A	200	200	1/6 months [3]	Grab [4]
Oil and Grease	N/A	15	15	1/6 months [3]	Grab [4]

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[3] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.
[4] Samples taken at either Outfall 009 or 010 may be used to represent the other outfall.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [3], by grab [4] sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations:

   At Outfall 009, at the designated sample collection point, southwest corner of the transmission laydown yard, before discharge to vegetated area, and prior to discharge into Braunig Lake.

   At Outfall 010, at the designated sample collection point, northwest corner of the transmission laydown yard, before discharge to vegetated area, and prior to discharge into Braunig Lake.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 016

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], stormwater from secondary containment, stormwater runoff from material/product storage areas, vault water, and wash water [2] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [3]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [3]	Grab
Oil and Grease	N/A	15	15	1/6 months [3]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [3], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations: At Outfall 016, at designated sample collection point, south of building 2202, outside of the fence, prior to discharge into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff [1], stormwater from secondary containment, condensate tank water drainage, wash water [2], neutralization pit water, vault water, emergency discharge of water treatment wastes [3], and stormwater associated with construction activity and material/product storage area [4] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [5]	Estimate [6]
Chemical Oxygen Demand	N/A	200	200	1/6 months [5]	Grab [6]
Oil and Grease	N/A	15	15	1/6 months [5]	Grab [6]

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 21.
[3] See Other Requirement No. 20.
[4] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[5] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.
[6] A sample taken at Outfall 015, 017, or 018 may be used to represent the other Outfalls 015, 017, and/or 018.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [4], by grab [5] sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following locations:

   At Outfall 015, after the concrete drainage structure discharge pipe, east of the demineralizer building, prior to discharge into Braunig Lake.

   At Outfall 017, at the discharge pipe, southeast of the water treatment building, prior to discharging into Braunig Lake.

   At Outfall 018, at the discharge pipe, east of the water treatment building, prior to discharging into Braunig Lake.

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge stormwater runoff from the area south of the Braunig Units [1], stormwater associated with construction activity and material/product storage area [2], vault water, and wash water [3] subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average	Daily Maximum	Single Grab	Report Daily Average and Daily Maximum	
	mg/L	mg/L	mg/L	Measurement Frequency	Sample Type
Flow	N/A	Report MGD	N/A	1/6 months [4]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/6 months [4]	Grab
Oil and Grease	N/A	15	15	1/6 months [4]	Grab

[1] See Other Requirement No. 12.
[2] See Other Requirement No. 18 for requirements for additional stormwater from construction activities.
[3] See Other Requirement No. 21.
[4] When discharge occurs during normal business hours for the Environmental Operations Department, excluding Saturday, Sunday, and holidays. Samples must be obtained within two hours of initiation of discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/6 months [4], by grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples shall be taken at the following location: At Outfall 019, at the concrete collection box west of building 2212, prior to discharge into Braunig 2 discharge canal.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

   a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.

   b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

   c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

   d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

   e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

   f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

   a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

      i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

      ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

   b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

   c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

   d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the “daily discharge” is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day.

The "daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD × Concentration, mg/L × 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

   a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).

   b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

   Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

   a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

   b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

   a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

   b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

   c. Records of monitoring activities shall include the following:

      i. date, time, and place of sample or measurement;
      ii. identity of individual who collected the sample or made the measurement;
      iii. date and time of analysis;
      iv. identity of the individual and laboratory who performed the analysis;
      v. the technique or method of analysis; and
      vi. the results of the analysis or measurement and quality assurance/quality control records.

      The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

   If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

   All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

   Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
      i. unauthorized discharges as defined in Permit Condition 2(g).
      ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
      iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the regional office, orally or by facsimile transmission within 24 hours, and both the regional office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

   a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
      i. one hundred micrograms per liter (100 µg/L);
      ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
      iv. the level established by the TCEQ.

b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. five hundred micrograms per liter (500 μg/L);
ii. one milligram per liter (1 mg/L) for antimony;
iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. the level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;

b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

c. for the purpose of this paragraph, adequate notice shall include information on:

i. the quality and quantity of effluent introduced into the POTW; and
ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. violation of any terms or conditions of this permit;
ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or

      ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

      iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

   e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

   f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

   This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

8. Property Rights

   A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

   The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

    The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy.

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;
       ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
       iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.

    b. This notification must indicate:

       i. the name of the permittee;
       ii. the permit number(s);
       iii. the bankruptcy court in which the petition for bankruptcy was filed; and
       iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words “confidential business information” on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:

a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.

e. The term “industrial solid waste management unit” means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

i. volume of waste and date(s) generated from treatment process;
ii. volume of waste disposed of on-site or shipped off-site;
iii. date(s) of disposal;

iv. identity of hauler or transporter;
v. location of disposal site; and
vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

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OTHER REQUIREMENTS

1. This permit does not authorize the discharge of domestic wastewater. All domestic wastewater must be disposed of in an approved manner, such as routing to an approved on-site septic tank and drainfield system or to an authorized third party for treatment and disposal.

2. This provision supersedes and replaces Provision 1, Paragraph 1 of Monitoring and Reporting Requirements found on Page 4 of this permit.

   Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 25th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

3. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 13 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 13 and Compliance Monitoring Team (MC 224): None.

4. The term "free available chlorine" means the value obtained using any of the "chlorine-free available" methods in Table IB in 40 CFR 136.3(a) where the method has the capability of measuring free available chlorine (FAC), or other methods approved by the TCEQ.

   Free available chlorine (FAC) may not be discharged from any unit for more than two hours in any one day, and not more than one unit in any plant may discharge free available chlorine at any one time unless the permittee can demonstrate to the permitting authority that the units in a particular location cannot operate at or below this level of chlorination.

   Simultaneous multi-unit chlorination is not permitted.

   Daily mass loading of FAC must be calculated using the following equation [1] :

   FAC (lbs/day) = FAC (mg/L) × flow (MGD) × 8.345 × (2 hours/24 hours)

   where: FAC (mg/L) = concentration of FAC measured in the effluent during representative period of chlorination.

   flow (MGD) = total actual flow of discharge via outfall during sampling day

   The permittee has demonstrated to the TCEQ that the units in a particular location cannot operate at or below the level of chlorination of 2 hours per day maximum when Zebra Mussel mitigation has started. The daily maximum limitation for FAC will change 0.25 mg/L to allow for these variations and the mass limitations have been removed once notification per Other Requirement No. 22 has been made and thereafter to the expiration date of the permit.

5. The term "low volume waste sources" means, taken collectively as if from one source, wastewater from all sources except those for which specific limitations or standards are otherwise established in

[1] V. H. Braunig Power Station is not limited to only running and/or chlorinating one unit per day.

40 CFR Part 423. Low volume waste sources include but are not limited to the following: Wastewaters from ion exchange water treatment system, water treatment evaporator blowdown, laboratory and sampling streams, boiler blowdown, floor drains, cooling tower basin cleaning wastes, recirculating house service water systems, and wet scrubber air pollution control systems whose primary purpose is particulate removal. Sanitary wastes, air conditioning wastes, and wastewater from carbon capture or sequestration systems are not included in this definition.

The discharge of boiler blowdown via Outfall 801 is not authorized.

6. The term "total residual chlorine" (TRC, or total residual oxidants for intake water with bromides) means the value obtained using any of the "chlorine-total residual" methods in Table IB in 40 CFR 136.3(a), or other methods approved by the TCEQ.

   Total residual chlorine (TRC) may not be discharged from any single generating unit for more than two hours per day unless the discharger demonstrates to the permitting authority that discharge for more than two hours is required for macroinvertebrate control.

   Simultaneous multi-unit chlorination is not permitted.

   The daily maximum mass loading of TRC must be calculated using the following equation:

   TRC (lbs/day) = TRC (mg/L) × flow (MGD) × 8.345 ×
   (total hours of chlorination/24 hours) × (# of units)

   where: TRC (mg/L) = maximum concentration of TRC measured in the effluent during representative period of chlorination

   flow (MGD) = total actual flow of discharge via outfall during sampling day

   The permittee has demonstrated to the TCEQ that the units in a particular location cannot operate at or below the level of chlorination of 2 hours per day maximum when Zebra Mussel mitigation has started. The daily maximum limitation for TRC has been changed to 0.1 mg/L to allow for these variations and the mass limitations have been removed once notification per Other Requirement No. 22 has been made and thereafter to the expiration date of the permit.

7. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.

8. The term "once-through cooling water" means water passed through the main cooling condensers in one or two passes for the purpose of removing waste heat.

9. The term "recirculated cooling water" means water which is passed through the main condensers for the purpose of removing waste heat, passed through a cooling device for the purpose of removing such heat from the water and then passed again, except for blowdown, through the main condenser.

10. The term "average concentration" as it relates to chlorine discharge means the average of analyses made over a single period of chlorine release which does not exceed two hours.

11. Grab samples for oil and grease analysis from internal Outfall 401 must be taken at the following frequencies:

    a. when boiler blowdown is discharged – once per six months (1/6 months); or

    b. when any other authorized waste stream is discharged – once per week (1/week).

12. Stormwater runoff includes any non-stormwater waste streams that qualify for coverage under the *Multi-Sector General Permit for Industrial Stormwater* (TXR050000, Part II, Section A, Item 6). The following specific non-stormwater discharges are authorized:

    a. discharges from emergency firefighting activities (includes fire prevention actions taken to control other dangerous high heat conditions such as smoldering and emergency cooling of equipment) and uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);

    b. discharge from cooling water pumps and intake structure screen wash systems. The permittee shall meet the pH effluent limitation for each permitted outfall, prior to discharge;

    c. potable water sources (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);

    d. lawn watering and similar irrigation drainage, provided that all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;

    e. water from the routine external washing of buildings, conducted without the use of detergents or other chemicals;

    f. water from the routine washing of pavement conducted without the use of detergents or other chemicals and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed);

    g. uncontaminated air conditioner condensate, compressor condensate, and steam condensate, and condensate from the outside storage of refrigerated gases or liquids;

    h. water from foundation or footing drains where flows are not contaminated with pollutants (e.g., process materials, solvents, or other pollutants);

    i. uncontaminated water used for dust suppression; and

    j. springs and other uncontaminated groundwater.

13. Chronic toxic criteria apply at the edge of the mixing zones. The mixing zone for Outfall 001 is defined as a volume of water within a radius of 100 feet extending over the receiving water from the point of discharge.

14. The permittee shall comply with the effluent limitations at Outfall 001. Effluent analysis for Outfall 001 shall be flow-weighted from the three-separate discharge points for Outfall 001, at the locations listed below. Grab samples from each source may be either individually analyzed for reporting of the arithmetic average and maximum values or physically combined into a single flow-weighted sample for analysis and reporting.

    The permittee shall relocate the sampling location such that the flow condition prevents lake water from mixing with the effluent sample during high flow and low flow discharge conditions as follows:

    a. Braunig 1 discharge canal;

        1. High flow discharge conditions such that no lake water enters past the partial existing berm; therefore, the sample collection point is on the west side of unit #1 discharge canal.

High flow is defined as VHB1 Circulator(s) in service regardless of the CT's Chiller Circulator(s) operational status.

2. Low flow discharge conditions such that lake water may enter at the sample collection point on the west side of unit #1; therefore, the sample collection point for low flow conditions is on the west side of discharge canal in line with direction of flow. Low flow is defined as VHB1 Circulator(s) out of service and CT's Chiller Circulator(s) in service.

b. at the outlet of the Braunig 2 discharge canal prior to discharging to Braunig Lake; and

c. at the outlet of the AvR/Braunig 3 discharge canal prior to discharging to Braunig Lake.

The permittee shall maintain an operating log which records the flow from each discharge point for use in calculating the mass limits for free available chlorine and total residual chlorine. The operating log shall be retained on-site for five-years and available for inspection by authorized representatives of the TCEQ in accordance with MONITORING AND REPORTING REQUIREMENTS, Item 3.c. of this permit.

15. If more than one source is being discharged, the permittee shall obtain grab samples from each source and use the appropriate analysis procedure below.

a. Total Suspended Solids: grab samples obtained from each source may be analyzed in either of the following ways:

1. individually – each sample may be analyzed individually. The daily average must be the flow-weighted average of the results for all samples, and the daily maximum must be the maximum of the results for all samples; or

2. combined – all samples may be physically combined into a single flow-weighted sample for analysis and reporting.

b. Oil and grease: grab samples must be analyzed individually. The daily average must be the flow-weighted average of the results for all samples, and the daily maximum must be the maximum of the results for all samples.

c. pH: grab samples must be analyzed individually. The minimum and maximum of the results for all samples must be used for reporting purposes.

In order to clarify and define the location of complex outfalls described in the permit, the permittee shall identify each point of discharge by a placard (or some type of label) that contains the outfall number corresponding to that point of discharge. The permittee may apply for consideration of alternate sampling and laboratory test methods in accordance with the provisions of 30 TAC § 319.12.

16. COOLING WATER INTAKE STRUCTURE REQUIREMENTS

The permittee shall provide written notification to the TCEQ Industrial Permits Team (MC 148) and Region 13 Office of any changes in the method by which the facility obtains water for cooling purposes. This notification must be submitted 30 days prior to any such change and must include a description of the planned changes. The TCEQ may, upon review of the notification, reopen the permit to include additional terms and conditions as necessary.

17. ONCE-THROUGH COOLING WATER EXEMPTION APPROVAL

In accordance with 30 TAC §307.8(d) and based upon statistical analysis and source investigation, a once-through cooling water exemption for total dissolved solids, chloride, and sulfate has been approved by the Water Quality Standards Implementation Team at Outfall 001. The permittee submitted a study in accordance with the approved Once-through Cooling Water Exemption Study Plan. The study results entitled V.H. Braunig Steam Electric Station Once-through Cooling Water Exemption Study for Total Dissolved Solids, Chloride, and Sulfate, July 2018, per the TCEQ Interoffice Memorandum dated March 5, 2019, from the Standards Implementation Team to the Industrial Permits Team.

As a result of this analysis, the permit will be issued without effluent limitations based on water quality criteria for TDS and chloride at Outfall 001. However, the permittee shall conduct long-term monitoring of both the effluent and intake water at once per six months for total dissolved solids and chloride at Outfall 001.

18. STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

Stormwater discharges from construction activities and construction support activities, and allowable non-stormwater discharges described in section (a)(1)-(8) below are authorized for discharge under this TPDES individual permit via Outfalls 001, 003, 006, 007, 008, 009, 010, 011, 013, 015, 017, 018, and 019 and internal Outfalls 401, 501, 701, and 901.

(a) Allowable non-stormwater discharges authorized for discharge are limited to the following, unless specific waste streams are identified on Page 2, 2c, 2d, 2f, 2h, 2i, 2j, 2k,2m, and 2n of this permit:

(1) discharges from emergency fire-fighting activities (emergency fire-fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, or similar activities);

(2) uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water);

(3) water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where solvents, detergents, and soaps are not used, where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;

(4) uncontaminated water used to control dust;

(5) potable water sources, including waterline flushings, but excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life;

(6) uncontaminated air conditioning condensate;

(7) uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents; and

(8) lawn watering and similar irrigation drainage.

(b) The permittee must implement and comply with the permit conditions and requirements outlined in the current TPDES stormwater Construction General Permit, TXR150000, effective

on March 5, 2023, that are applicable for the type of operator and size of soil disturbing construction activities and construction support activities except as detailed in paragraphs (d) and (f) below. The permittee must identify and document the conditions and requirements established in TXR150000 that are applicable to its construction activities, including the development and implementation of a stormwater pollution prevention plan (SWP3) and best management practices (BMPs). The SWP3 must include justification documenting which conditions and requirements in TXR150000 are applicable to the permittee's construction activities and construction support activities.

(c) The SWP3 and any other applicable records required by TXR150000 must be kept current, maintained onsite, and made readily available to TCEQ, federal, state, or local government representatives upon request.

(d) Since stormwater discharges from construction activities and construction support activities and allowable non-stormwater discharges are authorized under this TPDES individual permit, there is no requirement for the permittee to obtain separate authorization(s) under TXR150000 by filing of a Notice of Intent (NOI) for construction activities and construction support activities performed within the permitted facility.

(e) If authorizations under TXR150000 for stormwater discharges from construction activities and construction support activities and allowable non-stormwater discharges at Outfalls 001, 003, 006, 007, 008, 009, 010, 011, 013, 015, 017, 018, and 019 and internal Outfalls 401, 501, 701, and 901 exists, then the permittee must terminate coverage under TXR150000 for Outfalls 001, 003, 006, 007, 008, 009, 010, 011, 013, and 019 and internal Outfalls 401, 501, 701, and 901upon issuance of this TPDES individual permit.

(f) *Final Stabilization.* Because stormwater discharges from construction and construction support activities are covered under this TPDES individual permit, the permittee does not need to submit a Notice of Termination (NOT) after final stabilization has been completed. Instead, the permittee must document in the SWP3 the dates when soil disturbing construction activities are completed, and the final stabilization conditions and requirements established in TXR150000 have been achieved on any portion of the permitted facility.

(g) Should the permittee decide to alternatively obtain coverage to discharge under TXR150000, the permittee must file an application for a minor amendment of this TPDES individual permit to remove the authorization to discharge stormwater from construction activities and construction support activities, and allowable non-stormwater discharges. Once this individual permit is modified and issued, it is the responsibility of the permittee to obtain coverage under the TXR150000 for any construction activities within the permitted facility.

The permittee is placed on notice that authorization to continue discharging stormwater from construction activities and construction support activities, and allowable non-stormwater discharges under this TPDES individual permit, this Other Requirement 18 will be updated at the time of the next permitting action for this TPDES individual permit to require the permittee to comply with any new or revised conditions and requirements established within the current reissued and updated TXR150000.

19. The flow-weighted average temperature (FWAT) shall be computed and recorded on a daily basis. FWAT shall be computed at equal time intervals not greater than two hours. The method of calculating FWAT is as follows:

$$\text{FWAT} = \frac{\text{SUMMATION (INSTANTANEOUS FLOW X INSTANTANEOUS TEMPERATURE)}}{\text{SUMMATION (INSTANTANEOUS FLOW)}}$$

where: The "daily average temperature" shall be the arithmetic average of all FWAT's calculated during the calendar month.

The "daily maximum temperature" shall be the highest FWAT calculated during the calendar month.

20. The term *water treatment wastes* include but is not limited to: cold lime water treatment wastes, demineralizer water, demineralizer backwash, demineralizer regenerant wastewaters, deionized water, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, city water, and reverse osmosis (wastewater) reject water.

21. WASH WATER ACTIVITIES

The following activities generate wash water at the V.H. Braunig Steam Electric Station intermittently unless otherwise noted. Water used for washing is either fire water or service water that is supplied from Braunig Lake without the use of detergents or other chemicals and flow is variable for the following activities:

a. wash water to clean out pipe trenches, sumps, underground piping, yard drains, and parking lot areas;

b. wash down of transformers on an as needed basis;

c. wash down of induced draft fan VFD cooling system coils;

d. cleaning of ground floors around the units;

e. washing of the air conditioner condenser coil;

f. washing of other equipment as needed; and

g. wash down of the building.

22. The permittee shall provide written notification to the TCEQ Industrial Permits Team (MC 148) and Region 13 Office of implementation of the Zebra Mussel mitigation program of semi-continuous alternating of 15 minutes on and 45 minutes off chlorination with a concentration of 0.3 to 0.5 parts per million of TRC. Free available chlorine (FAC) and Total residual chlorine (TRC) limits and methods described in the permit and in Other Requirement Nos. 4 and 6 cannot be violated with the mitigation process. This notification must be submitted 30 days prior to any such change and must include a description of the planned changes. The TCEQ may, upon review of the notification, reopen the permit to include additional terms and conditions as necessary.

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.

b. The permittee shall conduct the following toxicity tests utilizing the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.

2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. Testing Frequency Reduction

1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been

previously granted and a subsequent test demonstrates significant toxicity, the permittee will resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all

dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected as close to the point of discharge as possible but unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days);

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TLP3B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "0."

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.

9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.

10) For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.

12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant effect and significant lethality were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction of the test organism in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or

both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled “Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I” (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled “Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/080) and “Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/081). All characterization,

identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are herein defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

		Date	Time		Date	Time
Dates and Times Composites Collected	No. 1 FROM:	_____		TO:	_____	
	No. 2 FROM:	_____		TO:	_____	
	No. 3 FROM:	_____		TO:	_____	

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving Water _____ Synthetic Dilution Water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

	Percent effluent (%)					
REP	0%	32%	42%	56%	75%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults) Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (100%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

   Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (100%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

		Date Time		Date Time
Dates and Times Composites Collected	No. 1 FROM:	_____	TO:	_____
	No. 2 FROM:	_____	TO:	_____
	No. 3 FROM:	_____	TO:	_____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving Water _____ Synthetic Dilution Water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
75%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION (100%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
32%									
42%									
56%									
75%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less (p=0.05) than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (100%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit. All test results, valid or invalid, must be submitted as described below.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in Part 1.a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if

the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater to organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50%, and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in item 1.b. As a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents

entitled “Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/080) and “Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity” (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility’s effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE Plan and Schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are herein defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a

compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001515000, U.S. Environmental Protection Agency (EPA) ID No. TX0063690, to discharge to water in the state

Issuing Office:	Texas Commission on Environmental Quality (TCEQ) P.O. Box 13087 Austin, Texas 78711-3087
Applicant:	City Public Service of San Antonio P.O. Box 1771 San Antonio, Texas 78296
Prepared By:	Thomas E. Starr, P.E. Industrial Wastewater Section Water Quality Division (512) 239-4570
Date:	July 7, 2025
Permit Action:	Major amendment with renewal to add stormwater associated with construction activity as a wastestream to Outfalls 001, 501, 701, 901, 003, 006-008, 011, 015, 017-019; reduce monitoring frequency for flow measurements from once per week to once per six months for Outfalls 501, 601, 701, 901, 003, 006-011, 013, 015-019; revise representitive sampling provisions for Outfalls 015, 017, and 018 so they are representitive of each other; add extended chlorination or alternative mussel mitigation strategies; relax mass limits for chlorine to correspond with existing concentration limits at the permitted flow rates; and update free available chlorine calculation reporting conditions.

I. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 Texas Administrative Code (TAC) §305.127(1)(C)(i).

II. APPLICANT ACTIVITY

The applicant currently operates V.H. Braunig Power Station, a steam electric generating plant consisting of three conventional gas steam units, one combined-cycle unit, and four simple cycle dual fuel units.

III. DISCHARGE LOCATION

As described in the application, the facility is located at 15290 Streich Road, 2.75 miles northwest of the City of Elmendorf, Bexar County, Texas 78112. Discharge is to Braunig Lake, thence to Arroyo Seco, thence to Upper San Antonio River in Segment No. 1911 of the San Antonio River Basin.

IV. RECEIVING STREAM USES

The unclassified receiving water uses are high aquatic life use for Braunig Lake. The designated uses for Segment No. 1911 are primary contact recreation and high aquatic life use.

V. STREAM STANDARDS

The general criteria and numerical criteria that make up the stream standards are provided in 30 TAC §§ 307.1 - 307.10.

VI. DISCHARGE DESCRIPTION

The following is a quantitative description of the discharge described in the monthly effluent report data for the period April 2020 through March 2025. The "average of daily average" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "maximum of daily maximum" values presented in the following table are the individual maximum values for the reporting period for each pollutant. Flows are expressed in million gallons per day (MGD). All pH values are expressed in standard units (SU).

A. Flow

Outfall	Frequency	Average of Daily Average, MGD	Maximum of Daily Maximum, MGD
001	Continuous	594	1210
101	Intermittent	0.059	0.466
201	Intermittent	0.138	0.455
401	Intermittent	1.88	10.2
501	Intermittent	0.042	0.130
601	Intermittent	0.030	0.109
701	Intermittent	0.087	2.73
801	Intermittent	0.048	0.414
901	Intermittent	1.60	1.60
003	Intermittent	0.238	1.80
006	Intermittent	0.126	1.14
007	Intermittent	0.067	0.067
008	Intermittent	0.083	0.391
009	Intermittent	0.516	3.88
010	Intermittent	0.208	1.24
011	Intermittent	0.949	1.01
013	Intermittent	0.073	0.077
015	Intermittent	0.127	0.345
016	Intermittent	0	0
017	Intermittent	0.061	0.120
018	Intermittent	0.065	0.120
019	Intermittent	0.046	0.048

B. Temperature

Outfall	Average of Daily Average, °F	Maximum of Daily Maximum, °F
001	86.2	107

C. Effluent Characteristics

Outfall	Pollutant	Average of Daily Average,	Maximum of Daily Maximum,
		mg/L	mg/L
001	Free Available Chlorine	0.0 (0.0 lbs/day)	0.0 (0.0 lbs/day)
	Total Residual Chlorine	N/A (N/A - lbs/day)	0.0 (0.0 lbs/day)

C. Effluent Characteristics

Outfall	Pollutant	Average of Daily Average, mg/L	Maximum of Daily Maximum, mg/L
001	Total Dissolved Solids (TDS)	1483	1710
	Chloride	583	650
	pH	8.18 SU minimum	9.72 SU
101	Total Suspended Solids (TSS)	3.31	39.2
	Oil and Grease	4.97	15.2
201	TSS	6.7	30
	Oil and Grease	4.95	6.10
	pH	7.18 SU minimum	9.75 SU
401	TSS	14.2	33.0
	Oil and Grease	4.62	12.4
	pH	7.0 SU minimum	9.79 SU
501	Chemical Oxygen Demand (COD)	N/A	51.4
	Oil and Grease	5.00	5.00
	pH	7.8 SU minimum	8.34 SU
601	COD	N/A	75.0
	Oil and Grease	5.00	5.00
	pH	6.5 SU minimum	8.0 SU
701	TSS	N/A	64.4
	COD	N/A	28.3
	Oil and Grease	N/A	5.00
	pH	7.5 SU minimum	8.23 SU
801	TSS	30.0	56.0
	Oil and Grease	5.11	14.8
	pH	6.21 SU minimum	8.4 SU
901	TSS	82.1	325
	COD	N/A	76.0
	Oil and Grease	5.15	5.30
	pH	7.45 SU minimum	8.5 SU
003	COD	N/A	53.3
	Oil and Grease	5.00	5.00
	pH	7.0 SU minimum	8.0 SU
006	COD	N/A	60.0
	Oil and Grease	5.00	5.00
	pH	8.0 SU minimum	8.36 SU
007	COD	N/A	81.0
	Oil and Grease	5.0	5.00
	pH	7.0 SU minimum	8.67 SU
008	COD	N/A	94.6
	Oil and Grease	5.00	5.00
	pH	7.0 SU minimum	8.1 SU
009	COD	N/A	40.0
	Oil and Grease	N/A	5.00
	pH	7.37 SU minimum	8.13 SU
010	COD	N/A	66.2
	Oil and Grease	N/A	0
	pH	7.4 SU minimum	7.87 SU

C. Effluent Characteristics

Outfall	Pollutant	Average of Daily Average, mg/L	Maximum of Daily Maximum, mg/L
011	COD	N/A	93.0
	Oil and Grease	5.00	5.79
	pH	7.8 SU minimum	9.0 SU
013	COD	N/A	88.0
	Oil and Grease	5.00	5.00
	pH	7.44 SU minimum	8.96 SU
015	COD	N/A	56.0
	Oil and Grease	N/A	5.00
	pH	8.19 SU minimum	8.65 SU
016	COD	No Discharge	No Discharge
	Oil and Grease	No Discharge	No Discharge
	pH	No Discharge	No Discharge
017	COD	N/A	76.8
	Oil and Grease	N/A	10.8
	pH	8.14 SU minimum	9.0 SU
018	COD	N/A	76.8
	Oil and Grease	N/A	5.00
	pH	8.19 SU minimum	8.65 SU
019	COD	N/A	58.3
	Oil and Grease	N/A	5.00
	pH	8.12 SU minimum	8.68 SU

No effluent limit violations were documented in the monthly effluent reports.

VII. DRAFT EFFLUENT LIMITATIONS

See Appendix D for a comparison of technology-based effluent limitations, water quality-based effluent limitations, existing effluent limitations, and effluent limitations established in the draft permit.

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	29.256494 N	98.385498 W
003	29.262755 N	98.387496 W
006	29.258506 N	98.38566 W
007	29.257652 N	98.38561 W
008	29.256805 N	98.385374 W
009	29.264174 N	98.386002 W
010	29.268409 N	98.388385W
011	29.254962 N	98.381458 W
013	29.257019 N	98.379928 W
015	29.256146 N	98.380202 W
016	29.255032 N	98.380896 W
017	29.255803 N	98.380396 W

018	29.256023 N	98.380328 W
019	29.255363 N	98.382635 W

VIII. SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

IX. SUMMARY OF CHANGES FROM EXISTING PERMIT

The permittee requested the following amendments that the Executive Director recommends granting:

1. To add stormwater associated with construction activity as a wastestream to Outfalls 001, 501, 701, 901, 003, 006-008, 011, 015, 017-019.

2. To reduce monitoring frequency for flow measurements from once per week to once per six months for Outfalls 501, 601, 701, 901, 003, 006-011, 013, 015-019.

   A review of the self-reported data indicates the facility has primarily stormwater-driven discharges due to the intermittent frequency of the discharges via Outfalls 701, 901, 003, 009, 010, 015, 016, 017, 018, and 019. Based on the *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998, the monitoring frequency may be reduced based on a good compliance history over the most recent 2-year reporting period. Also, the MSGP only requires annual sampling for the benchmark parameters for Sector O facilities[1]. Therefore, a once-per-six-months monitoring frequency is reasonable for primarily stormwater-driven discharges. After evaluating the compliance history for Outfalls 701, 901, 003, 009, 010, 015, 016, 017, 018, and 019, the monitoring frequencies have been reduced across these outfalls to once per six months for flow.

   By this reduction in monitoring, the daily average in the draft permit is changed to N/A since the sampling results will be reported as a daily maximum.

3. To revise representitive sampling provisions for Outfalls 015, 017, and 018 so they are representitive of each other.

4. To add extended chlorination or alternative mussel mitigation strategies. Such strategies require changes in the two hour chlorination process. An Other Requirement No. 22 was added to allow for notification and proceding with a mitigation process. Other Requirement Nos 4 and 6 were changed from the existing permit to allow for this alternative process.

5. To relax mass limits for chlorine to correspond with existing concentration limits at the permitted flow rates. The existing mass calculation for free available and total residual chlorine date back to the 2007 application where an increase in flow was requested but not a change in chlorination mass limits. Per the anti-backsliding exception of 40 CFR § 122.44(l)(2)(i)(A).

[1] Multi-Sector General Permit for Industrial Stormwater, TPDES General Permit No. TXR050000, Part V, Section O.6., page 137, referencing Benchmark Monitoring Requirements.

The following additional changes have been made to the draft permit:

1. Pages 3-13 were updated (May 2021 version).
2. The facility address was updated to just the street address.
3. TDS and Chloride reporting requirement on Page 2 of the draft permit was removed as the frequency of once per six months no longer makes this a daily average and the requirement located in Other Requirement No. 17.
4. Other Requirement No. 1 from the existing permit was not carried forward as the requirement for cyanide effluent testing had been met.
5. New Other Requirement No. 1 was added to the draft permit to prohibit discharge of domestic wastewater.
6. Other Requirement No. 12 was updated to clarify specific non-stormwater discharges.

X. DRAFT PERMIT RATIONALE

The following section sets forth the statutory and regulatory requirements considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions, including a citation to the applicable effluent limitation guidelines and water quality standards.

A. REASON FOR PERMIT ISSUANCE

The applicant applied to the TCEQ for a major amendment to TPDES Permit No. WQ0001515000 to add stormwater associated with construction activity as a wastestream to Outfalls 001, 501, 701, 901, 003, 006-008, 011, 015, 017-019; reduce monitoring frequency for flow measurements from once per week to once per six months for Outfalls 501, 601, 701, 901, 003, 006-011, 013, 015-019; revise representitive sampling provisions for Outfalls 015, 017, and 018 so they are representitive of each other; add extended chlorination or alternative mussel mitigation strategies; relax mass limits for chlorine to correspond with existing concentration limits at the permitted flow rates; and update free available chlorine calculations reporting conditions.

The draft permit authorizes the discharge of once-through cooling water, previously monitored effluents (PME; low volume waste sources, non-contact cooling water from the evaporative coolers, vault water, condensate water, water box drainage, wash water, water treatment wastes, cooling water, quench water, stormwater associated with construction activity and material/product storage area, and stormwater from secondary containment and area stormwater runoff, condensate tank drainage, and stormwater runoff), vault water, stormwater associated with construction activity, and stormwater runoff at a daily average flow not to exceed 1,320,000,000 gallons per day via Outfall 001; stormwater runoff, stormwater associated with construction activity and the material/product storage area, vault water, stormwater from secondary containment, and stormwater from a fuel loading and off-loading area on an intermittent and flow-variable basis via Outfall 003; stormwater runoff, stormwater from stormwater from secondary containment, stormwater associated with construction activity and the material/product storage area, stormwater from a fuel loading and off-loading area, condensate tank drainage, condensate water, vault water, and wash water on an intermittent and flow-variable basis via Outfalls 006, 007, 008, 011, and 013; stormwater runoff, vault water, and stormwater associated with construction activity and the material/product storage area on an intermittent and flow-variable basis via Outfalls 009

and 010; stormwater runoff, stormwater from secondary containment, stormwater runoff from material/product storage areas, vault water, and wash water on an intermittent and flow-variable basis via Outfall 016; stormwater runoff, stormwater from secondary containment condensate tank water drainage, wash water, neutralization pit water, vault water, stormwater associated with construction activity, and the emergency discharge of water treatment wastes on an intermittent and flow-variable basis via Outfalls 015, 017, and 018; and stormwater runoff from the area south of the Braunig Units, stormwater associated with construction activity and the material/product storage area, vault water, and wash water on an intermittent and flow-variable basis via Outfall 019.

B. WATER QUALITY SUMMARY

Discharge Route
The discharge route is to Braunig Lake, thence to Arroyo Seco, thence to Upper San Antonio River in Segment No. 1911 of the San Antonio River Basin. The unclassified receiving water uses are high aquatic life use for Braunig Lake. The designated uses for Segment No. 1911 are primary contact recreation and high aquatic life use. Effluent limitations and conditions established in the draft permit comply with state water quality standards and the applicable water quality management plan. The effluent limits in the draft permit will maintain and protect the existing instream uses. Additional discussion of the water quality aspects of the draft permit can be found at Section X.D. of this fact sheet.

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

Endangered Species Review
The discharge from this permit is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS's biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Impaired Water Bodies
Segment No. 1911 is currently listed on the state's inventory of impaired and threatened waters, the 2014 Clean Water Act Section 303(d) list. The listing is for an impaired fish community from just upstream of the confluence with Sixmile Creek up to the upper end of the segment (AUs 1911_08 and 1911_09). The segment is also listed for an

impaired microbenthic community from just upstream of the confluence with Sixmile Creek to just upstream of the confluence with San Pedro Creek (AU 1911_08).

The analytical data submitted with the application for Outfall 001 does not indicate that new limitations or monitoring requirements are needed for the protection of aquatic life and human health. In addition, the draft permit includes requirements for whole effluent toxicity testing, which would identify toxicity in discharges via Outfall 001, which receives the discharges from internal Outfalls 101, 201, 401, 501, 601, 701, 801, and 901, and is the primary outfall for the discharge of categorical wastestreams on a continuous basis. For these reasons, this permit is not expected to contribute to the impairment of the fish and microbenthic communities in Segment No. 1911.

Completed Total Maximum Daily Loads (TMDLs)
TMDL Project No.34D has been approved for this segment: *Three Total Maximum Daily Loads for Bacteria in the San Antonio Area For Segment Numbers 1910, 1910A, and 1911.*

On August 8, 2007, TCEQ adopted Three Total Maximum Daily Loads for Bacteria in the San Antonio Area, Project No. 34D. The U.S. Environmental Protection Agency (USEPA) approved the TMDL on April 21, 2009. This document describes a project development to address water quality impairments related to bacteria for three streams located in and around the City of San Antonio: Salado Creek, Segment No. 1910; Walzem Creek, Segment No. 1910A; and the Upper San Antonio River, Segment No. 1911. The draft permit is not subject to the requirements of the TMDL. Effluent limitations and monitoring requirements for bacteria were removed in the last permitting action as no domestic wastewater discharge is allowed.

C. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

1. GENERAL COMMENTS

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

The draft permit authorizes the following discharges:

Outfall 001 - once-through cooling water, PMEs (from internal Outfalls 101, 201, 401, 501, 601, 701, 801, and 901) vault water, stormwater associated with construction activity, and stormwater runoff at a daily average flow not to exceed 1,320 MGD;

Internal **Outfall 101** – low volume waste sources, wash water, vault water, water treatment wastes, and stormwater runoff on an intermittent and flow-variable basis;

Internal **Outfall 201** – low volume waste sources, non-contact cooling water from the evaporative coolers, condensate water, water box drainage, vault water, cooling water, quench water, wash water, and stormwater from secondary

containment and area stormwater runoff on an intermittent and flow-variable basis;

Internal **Outfall 401** – low volume waste sources, stormwater runoff, vault water, stormwater from secondary containment, wash water, and stormwater associated with construction activity and material/product storage area on an intermittent and flow-variable basis;

Internal **Outfall 501** – stormwater runoff, wash water, condensate tank drainage, vault water, stormwater from secondary containment, and stormwater associated with construction activity and material/product storage area on an intermittent and flow-variable basis;

Internal **Outfall 601** – stormwater runoff, wash water, vault water, and condensate tank drainage on an intermittent and flow-variable basis;

Internal **Outfall 701** – stormwater runoff, wash water, vault water, water treatment wastes, stormwater from secondary containment, non-contact cooling water from the evaporative coolers, and stormwater associated with construction activity and material/product storage area on an intermittent and flow-variable basis;

Internal **Outfall 801** – low volume waste sources, vault water, cooling water, condensate water, wash water, stormwater from secondary containment, and stormwater runoff on an intermittent and flow-variable basis;

Internal **Outfall 901** – stormwater runoff (from a concrete drainage area), wash water, vault water, and stormwater associated with construction activity and material/product storage area on an intermittent and flow-variable basis;

Outfall 003- stormwater runoff, stormwater associated with construction activity and material/product storage area, vault water, stormwater from secondary containment, and stormwater from a fuel loading and off-loading area on an intermittent and flow-variable basis;

Outfalls 006, 007, 008, 011, and 013 – vault water, stormwater from secondary containment, stormwater runoff, stormwater associated with construction activity and material/product storage area, stormwater from a fuel loading and off-loading area, condensate tank drainage, condensate water, vault water, and wash water on an intermittent and flow-variable basis;

Outfalls 009 and 010 - stormwater runoff, vault water, and stormwater associated with construction activity and material/product storage area on an intermittent and flow-variable basis;

Outfall 016 - stormwater runoff, stormwater runoff from material/product storage areas, vault water, stormwater from secondary containment, and wash water on an intermittent and flow-variable basis;

Outfall 015, 017, and 018 - stormwater runoff, condensate tank water drainage, wash water, neutralization pit water, vault water, stormwater from secondary containment, stormwater associated with construction activity, and the

emergency discharge of water treatment wastes on an intermittent and flow-variable basis; and

Outfall 019 - stormwater runoff from the area south of the Braunig Units, stormwater associated with construction activity and material/product storage area, vault water, and wash water on an intermittent and flow-variable basis.

The discharge of once-through cooling water via Outfall 001 and low volume waste sources via internal Outfalls 101, 201, 401, and 801 from this facility are subject to federal effluent limitation guidelines at 40 CFR Part 423 – Steam Electric Power Generating Point Source Category. A new source determination was performed, and the discharge of once-through cooling water and low volume waste sources are not new sources as defined at 40 CFR § 122.2. Therefore, new source performance standards (NSPS) are not required for these discharges.

The discharge of various stormwaters via Outfalls 001, 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019, and internal Outfalls 101, 201, 401, 501, 601, 701, 801, and 901 are not subject to federal effluent limitation guidelines and any technology-based effluent limitations are based on best professional judgment.

The discharge of various other wastewaters (non-contact cooling water from the evaporative coolers, condensate water, water box drainage, vault water, cooling water, quench water, wash water, water treatment wastes, condensate tank (water) drainage, and neutralization pit water) via the applicable Outfalls 001, 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019, and internal Outfalls 101, 201, 401, 501, 601, 701, 801, and 901 is not subject to federal effluent limitation guidelines and any technology-based effluent limitations are based on best professional judgment.

The wastewater system at this facility consists of the following:

Outfall 001
Once-through cooling water, PMEs, and stormwater runoff are routed from various sources in the plant and discharged to any of the three discharge canals prior to entering Braunig Lake. Effluent sampling and monitoring are performed by compositing and flow-weighting the samples from the three discharge canals to demonstrate compliance with the effluent limitations established for Outfall 001.

Internal Outfall 101
Low volume waste sources such as demineralizer waste, reverse osmosis reject water, zeolite water softening wastes, wash water, vault water, and stormwater runoff are collected in the neutralization basin for pH adjustments and sedimentation prior to discharge to the intake canal where the effluent is commingled with cooling water drawn in the intakes and then discharged to any of the three discharge canals via Outfall 001.

Internal Outfall 201
Low volume waste sources (Heat Recovery Steam Generator (HRSG) blowdown, plant and equipment oily drainage, and combustion turbine cooling water), non-contact cooling water from the evaporative coolers, condensate water, water box

drainage, wash water, vault water, cooling water, quench water, and stormwater from secondary containment and area stormwater runoff are routed through a 10,000-gallon capacity oil/water separator, then to discharge canal No. 3 prior to discharge via Outfall 001.

Internal Outfall 401
Low volume waste sources (boiler blowdown and floor and yard drains), wash water, vault water, and stormwater runoff from the power generating units are discharged from an oil/water separator and then discharged via Outfall 001. Floor and yard drainage from Unit No. 1 and the combined floor and yard drainage from Unit Nos. 2 and 3 are treated by an oil/water separator and discharged via separate outlets to discharge canals Nos. 1 and 2, respectively. Boiler blowdown from Unit No. 1 (to discharge canal No. 1) and boiler blowdown from Unit Nos. 2 and 3 (to discharge canal No. 2) are discharged separately through individual outlets. The five low volume waste outlets comprising the discharge via internal Outfall 401 are composited separately and flow-weighted prior to analysis for compliance with effluent limits established for Outfall 401.

Internal Outfall 501
Stormwater runoff, stormwater associated with construction activity and a material/product storage area, condensate tank drainage, wash water, and vault water are discharged via Outfall 501. Outfall 501 is equipped with trap gates for containment and treatment.

Internal Outfall 601
Stormwater runoff, condensate tank drainage, vault water, and wash water receive treatment by sedimentation and are then discharged via Outfall 601.

Internal Outfall 701
Stormwater runoff, water treatment wastes, non-contact cooling water from the evaporative coolers, stormwater associated with construction activity and a material/product storage area, vault water, and wash water are routed through a sedimentation pond, then discharged via Outfall 701.

Internal Outfall 801
Low volume waste sources, stormwater runoff, cooling water, condensate water, vault water, and wash water are treated by an oil/water separator and then discharged via Outfall 801.

Internal Outfall 901
Stormwater runoff (from a concrete drainage area), stormwater associated with construction activity and a material/product storage area, vault water, and wash water receive filtration through a metal framed filter media prior to the sampling location at Outfall 901.

Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019
Stormwater runoff from various areas of the property is discharged via Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019. Discharges via Outfall 003 consist of stormwater runoff from the diked oil storage area which is routed to a sedimentation pond and released through an inverted siphon prior to discharge. Outfalls 006, 007, 008, and 015 are equipped with trap gates.

Wastewaters discharged through Outfalls 009, 010, 011, 013, 016, 017, 018, and 019 receive no treatment prior to discharge.

2. CALCULATIONS

See Appendix A of this fact sheet for calculations and further discussion of technology-based effluent limitations proposed in the draft permit. See Appendix D of this fact sheet for a comparison of technology-based effluent limits, existing effluent limits, and calculated water quality-based effluent limits.

3. 316(B) COOLING WATER INTAKE STRUCTURES

a. SCREENING

The facility utilizes reclaimed water for cooling purposes withdrawn from Braunig Lake, which is comprised primarily of treated sewage effluent discharged from San Antonio's wastewater treatment plants that is delivered to the lake using the beds and banks of the San Antonio River. Withdrawal from the San Antonio River is permitted under a surface water right and beds and banks permit (CA-19-2161, originally issued in 1961). The water supply is secured by a 50,000 acre-feet per year reclaimed water contract with San Antonio Water System (SAWS). SAWS (Public Water Supply (PWS) No. TX0150018) supplies Braunig Lake with reclaimed water using the beds and banks of the San Antonio River under Certificate of Adjudication 19-2162 and 19-2161A (1990 Braunig amendment). The treated effluent is pumped from the banks of the San Antonio River as needed, ¼ mile uphill via pipeline to the reservoir. According to the rules applicable to cooling water intake structures (40 CFR §125.91(c)), the use of reclaimed domestic effluent from a publicly-owned treatment works does not constitute the use of a CWIS; therefore, the facility is not subject to Clean Water Act (CWA) Section 316(b) or 40 CFR Part 125, Subpart J.

b. PERMIT ACTION

The Other Requirement No. 16 has been carried forward from the existing permit to require the permittee to notify the TCEQ of any changes in the method by which cooling water is obtained. Upon receipt of such notification, the TCEQ may reopen the permit to include additional terms and conditions as necessary.

D. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

1. GENERAL COMMENTS

The *Texas Surface Water Quality Standards* found at 30 TAC Chapter 307 state that surface waters will not be toxic to man from ingestion of water, consumption of aquatic organisms, or contact with the skin, or to terrestrial or aquatic life. The methodology outlined in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards* (IPs) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that (1) results in instream aquatic toxicity; (2) causes a violation of an applicable

narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health. Calculated water quality-based effluent limits can be found in Appendix B of this fact sheet.

TPDES permits contain technology-based effluent limits reflecting the best controls available. Where these technology-based permit limits do not protect water quality or the designated uses, additional water quality-based effluent limitations or conditions are included. State narrative and numerical water quality standards are used in conjunction with EPA criteria and other toxicity databases to determine the adequacy of technology-based permit limits and the need for additional water quality-based controls. A comparison of technology-based effluent limits and calculated water quality-based effluent limits can be found in Appendix D of this fact sheet.

2. AQUATIC LIFE CRITERIA

a. SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the *Texas Surface Water Quality Standards* (30 TAC Chapter 307).

Outfall 001
Discharge is directly to Braunig Lake. Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as volume within a radius of 25 feet from the point where the discharge enters Braunig Lake. The aquatic life mixing zone for this discharge is defined as volume within a radius of 100 feet from the point where the discharge enters Braunig Lake.

TCEQ uses the EPA horizontal jet plume model to estimate dilution at the edges of the ZID and aquatic life mixing zone for discharges greater than 10 MGD into lakes. General assumptions used in the horizontal jet plume model are a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentages are calculated based on the two-year maximum monthly average flow of 1173 MGD:

Acute Effluent %	100%	Chronic Effluent %	100%

Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019
These discharges are predominately stormwater. Aquatic life screening is not applicable because TPDES stormwater permits generally do not contain water quality-based effluent limitations. As stated in 30 TAC §307.8(e), controls on the quality of permitted stormwater discharges are largely based on implementing best management practices and/or technology-based limits in combination with instream monitoring to

assess standards attainment and to determine whether additional controls on stormwater are needed.

General Screening Procedures
Wasteload allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the *Texas Surface Water Quality Standards*, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, the instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a lognormal probability distribution, a given coefficient of variation (0.6), and a 99th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level.

The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment-specific values for TSS, pH, hardness, and chloride according to the *IPs*. The segment values are 4 mg/L for TSS, 7.4 standard units for pH, 204 mg/L for hardness (as calcium carbonate, $CaCO_3$), and 59 mg/L for chloride. For additional details on the calculation of water quality-based effluent limitations, refer to the *IPs*.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application equals or exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application equals or exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

b. PERMIT ACTION

Outfall 001
Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70 percent of the calculated daily average water quality-based effluent limitations for aquatic life protection. No additional limits or monitoring and reporting requirements have been added to the draft permit.

3. WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA (7-DAY CHRONIC)

a. SCREENING AND REASONABLE POTENTIAL ANALYSIS

The existing permit includes chronic freshwater biomonitoring requirements at Outfall 001.

REASONABLE POTENTIAL (RP) DETERMINATION

In the past three years, the permittee performed eleven chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic whole effluent toxicity (WET) testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015 and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required, and the permittee may be eligible for the testing frequency reduction after one year of quarterly testing.

b. PERMIT ACTION

The provisions of this section apply to Outfall 001.

Based on information contained in the permit application, the TCEQ has determined that there may be pollutants present in the effluent(s) that may have the potential to cause toxic conditions in the receiving stream.

Whole effluent toxicity testing (biomonitoring) is the most direct measure of potential toxicity, which incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity. The biomonitoring procedures stipulated as a condition of this permit are as follows:

i) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing shall be once per quarter

ii) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of testing shall be once per quarter

Toxicity tests shall be performed in accordance with protocols described in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms,* Fourth Edition (EPA-821-R-02-013) or the latest revision. The stipulated test species are

appropriate to measure the toxicity of the effluent consistent with the requirements of the state water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge.

This permit may be reopened to require effluent limits, additional testing, or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

If none of the first four consecutive quarterly tests demonstrates significant lethal or sublethal effects, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species. If one or more of the first four consecutive quarterly tests demonstrates significant sublethal effects, the permittee is required by the permit to continue quarterly testing for that species until four consecutive quarterly tests demonstrate no significant sublethal effects. At that time, the permittee may apply for the appropriate testing frequency reduction for that species. If one or more of the first four consecutive quarterly tests demonstrates significant lethal effects, the permittee is required by the permit to continue quarterly testing for that species until the permit is reissued.

c. DILUTION SERIES

The permit requires five (5) dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent.

The dilution series outlined above was calculated using a 0.75 factor applied to the critical dilution. The critical dilution is the estimated effluent dilution at the edge of the aquatic life mixing zone, which is discussed in Section X.D.2.a. of this fact sheet.

4. AQUATIC ORGANISM TOXICITY CRITERIA (24-HOUR ACUTE)

a. SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring requirements for Outfall 001. In the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures). Minimum 24-hour acute freshwater biomonitoring requirements are proposed in the draft permit as outlined below.

b. PERMIT ACTION

Twenty-four-hour 100% acute biomonitoring tests are required at Outfall 001 at a frequency of once per six months for the life of the permit.

The biomonitoring procedures stipulated as a condition of this permit are as follows:

i) Acute 24-hour static toxicity test using the water flea (*Ceriodaphnia dubia* or *Daphnia pulex*). A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.

ii) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five (5) replicates with eight (8) organisms per replicate shall be used for this test.

Toxicity tests shall be performed in accordance with protocols described in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition (EPA-821-R-02-012) or the latest revision.

5. AQUATIC ORGANISM BIOACCUMULATION CRITERIA

a. SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of fish tissue found in Table 2 of the *Texas Surface Water Quality Standards* (30 TAC Chapter 307).

Outfall 001

Fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone for discharges into lakes and reservoirs. The human health mixing zone for this discharge is defined as a volume within a radius of 200 feet from the point where the discharge enters Braunig Lake. TCEQ uses the EPA horizontal jet plume model to estimate dilution at the edge of the human health mixing zone for discharges greater than 10 MGD into lakes or reservoirs. General assumptions used in the horizontal jet plume model are a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentage is calculated based on two-year average monthly average flow of 637 MGD:

Human health Effluent %: 100%

Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019

Discharges via Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019 are predominately stormwater. Human health screening is not applicable because TPDES stormwater permits generally do not contain water quality-based effluent limitations. As stated in 30 TAC §307.8(e), controls on the quality of permitted stormwater discharges are largely based on implementing best management practices and/or technology-based limits in combination with instream monitoring to assess standards attainment and to determine whether additional controls on stormwater are needed.

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used, with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70 percent and 85 percent of the calculated daily average water quality-based effluent limitation.

b. PERMIT ACTION

Outfall 001
Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of human health. Reported analytical data does not exceed 70 percent of the calculated daily average water quality-based effluent limitation for human health protection. No additional limits or monitoring and reporting requirements have been added to the draft permit.

6. DRINKING WATER SUPPLY PROTECTION

a. SCREENING

Segment No. 1911, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

b. PERMIT ACTION

None.

7. TOTAL DISSOLVED SOLIDS, CHLORIDE, AND SULFATE STANDARDS PROTECTION

a. SCREENING

The average concentration of TDS and chloride in the effluent for Outfall 001 is greater than the segment criterion. Screening procedures and effluent limitations for TDS and chloride are calculated using the methodology in the *IPs* and criteria in the *Texas Surface Water Quality Standards* (30 TAC Chapter 307). Detailed calculations are presented in Appendix C.

b. PERMIT ACTION

The applicant performed a study *V.H. Braunig Steam Electric Station Once-Through Cooling Water Exemption* dated July 2018 demonstrating that there was no statistically significant increase of TDS, chloride or sulfate in effluent compared to the intake water, resulting in an exemption to dissolved solids screenings. Therefore, in accordance

with standards implementation procedures (pg. 155, IPs 2010), monitoring of TDS, chloride, and sulfate is recommended to continue as Other Requirement No. 17 in existing permit.

8. PROTECTION OF pH STANDARDS

a. SCREENING

Outfall 001
The existing permit includes limits on pH of 6.0 – 10.0 SU at Outfall 001, which discharges into Braunig Lake, an unclassified water body. These pH limits have been in the permit at Outfall 001 (formerly Outfall 004) since 1998. In addition, the permittee provided analytical data on the make-up water from Braunig Lake, as measured at the inlet, which is regularly at or above 9.0 standard units. Although the existing pH limitations vary from the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring this discharge to unclassified water bodies to meet pH limits of 6.0 – 10.0 standard units is still expected to reasonably ensure instream compliance with Texas Surface Water Quality Standards pH criteria for Segment No. 1911.

Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019
Stormwater runoff discharges from these outfalls were not screened against pH criteria, which is standard TCEQ practice. In addition, the existing permit includes pH limits of 6.0 – 9.0 standard units for these outfalls, which discharge into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria.

b. PERMIT ACTION

The existing pH limits of 6.0 – 10.0 standard units are carried forward in the draft permit at Outfall 001, and the existing pH limits of 6.0 – 9.0 SU are carried forward in the draft permit at Outfalls 003, 006, 007, 008, 009, 010, 011, 013, 015, 016, 017, 018, and 019.

9. DISSOLVED OXYGEN PROTECTION

a. SCREENING

Due to the intermittent nature (outfalls other than Outfall 001) and minimum of oxygen demanding waste loading for the continuous discharge at Outfall 001, none of the outfalls or proposed changes are expected to adversely affect the 5.0 mg/L dissolved oxygen criterion for Braunig Lake or the Upper San Antonio River (Segment No. 1911).

b. PERMIT ACTION

None.

10. BACTERIA STANDARDS PROTECTION

a. SCREENING

On August 8, 2007, the TCEQ adopted Three Total Maximum Daily Loads for Bacteria in the San Antonio Area, Project No. 34D. The U.S. Environmental Protection Agency (USEPA) approved the TMDL on April 21, 2009. This document describes a project developed to address water quality impairments related to bacteria for three streams located in and around the City of San Antonio: Salado Creek, Segment 1910; Walzem Creek, Segment 1910A; and the Upper San Antonio River, Segment 1911. This facility is not located in the area covered by the WLA requirements of the TMDL. The draft permit is not subject to the requirements of the TMDL. Further, effluent limits and monitoring requirements for bacteria at internal Outfall 301 were removed as domestic wastewater is no longer allowed for discharge in this permit.

b. PERMIT ACTION

None.

11. THERMAL STANDARDS PROTECTION

a. SCREENING

An effluent temperature screening was not conducted for this facility's discharge per 30 TAC § 307.4(f), "...Numerical temperature criteria have not been specifically established for industrial cooling impoundments, which in most areas of the state contribute to water conservation and water quality objectives. In addition, numerical criteria for temperature are not applicable in designated industrial cooling water areas,...."

b. PERMIT ACTION

The existing temperature monitoring and reporting condition at Outfall 001 is carried forward to the draft permit.

XI. PRETREATMENT REQUIREMENTS

This facility is not defined as a publicly owned treatment works. Pretreatment requirements are not proposed in the draft permit.

XII. VARIANCE REQUESTS

No variance requests have been received.

XIII. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Thomas E. Starr at (512) 239-4570.

XIV. ADMINISTRATIVE RECORD

The following section is a list of the fact sheet citations to applicable statutory or regulatory provisions and appropriate supporting references.

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

A. PERMIT(S)

TPDES Permit No. WQ0001515000 issued on September 29, 2020.

B. APPLICATION

TPDES wastewater permit application received on March 27, 2025 and additional information received on April 8, 2025, April 10, 2025, and April 24, 2025.

C. 40 CFR CITATION(S)

40 CFR Part 423 (BPT).

D. LETTERS/MEMORANDA/RECORDS OF COMMUNICATION

Letter dated April 29, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for thermal evaluation procedures).

Letter dated May 12, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for thermal evaluation procedures).

Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).

Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).

Letter dated December 28, 2015, from L'Oreal Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for procedures to determine reasonable potential for whole effluent toxicity limitations).

Letter dated December 28, 2015, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for procedures to determine reasonable potential for whole effluent toxicity limitations).

TCEQ Interoffice Memorandum dated July 18, 2025, from M.A. Wallace, PhD of the Standards Implementation Team, Water Quality Assessment Section, to the Industrial Permits Team, Industrial Wastewater Section (Standards Memo).

TCEQ Interoffice Memorandum dated May 28, 2025, from Sarah Musgrove of the Water Quality Assessment Team, Water Quality Assessment Section, to the Industrial Permits Team, Industrial Wastewater Section (Critical Conditions Memo).

TCEQ Interoffice Memorandum dated July 18, 2025, from Mara Guerin of the Water Quality Assessment Team, Water Quality Assessment Section, to the Industrial Permits Team, Industrial Wastewater Section (Modeling Memo).

TCEQ Interoffice Memorandum dated May 29, 2025, from Jenna R. Lueg of the Standards Implementation Team, Water Quality Assessment Section, to the Industrial Permits Team, Industrial Wastewater Section (Biomonitoring Memo).

E. MISCELLANEOUS

The *State of Texas 2022 Integrated Report* – Texas 303(d) List (Category 5), TCEQ, July 7, 2022.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 1, 2018, as approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not yet approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not yet approved by EPA Region 6.

Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition (EPA-821-R-02-013).

Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition (EPA-821-R-02-012).

Procedures to Implement the Texas Surface Water Quality Standards, TCEQ, June 2010, as approved by EPA Region 6.

Procedures to Implement the Texas Surface Water Quality Standards, TCEQ, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.

Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.

Three Total Maximum Daily Loads for Bacteria in the San Antonio Area for Segment Numbers 1910, 1910A, and 1911 (2007)

Appendix A
Calculated Technology-Based Effluent Limits

City Public Service of San Antonio operates the V.H. Braunig Power Station. The facility consists of eight generating units, three oil/gas-fired units, a combined-cycle gas combustion turbine unit, and four simple cycle gas turbine (peaking) units for a combined generation capacity of 3,045 megawatts (MW). The discharge from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423 – Steam Electric Power Generating Point Source Category.

Outfall 001 (once-through cooling water, previously monitored effluent (PME), vault water, and stormwater runoff) Best Practicable Control Technology (BPT and BAT) effluent limitations apply to the discharge of once-through cooling water.

a. BPT Free Available Chlorine effluent limitations according to 40 CFR § 423.12(b)(6)

   Free Available Chlorine
   Daily Average = 0.2 mg/L
   Daily Maximum = 0.5 mg/L

   The mass loading effluent limitations for Free Available Chlorine was calculated using the permitted daily average flow (1320 MGD).

   Loading, lbs/day = [(limit, mg/L)(Flow, MGD)(8.345)(2 hour chlorination/24 hour period)][1]

   Daily Average = [(0.2 mg/L)(1320 MGD)(8.345)/12] = 183.59 lbs/day
   Daily Maximum = [(0.5 mg/L)(1320 MGD)(8.345)/12] = 458.98 lbs/day

   *Daily maximum limitation has been reduced to 0.25 mg/L to allow for alternate chlorination in the future for mitigation of Zebra Mussel and the mass limitations have been removed.

b. Best Available Technology Economically Achievable (BAT) limitations for Total Residual Chlorine apply to the discharge of once-through cooling water according to 40 CFR § 423.13(b)(1):

   Total Residual Chlorine
   Daily Average = N/A
   Daily Maximum = 0.2 mg/L

   The mass loading effluent limitations for Total Residual Chlorine was calculated using the permitted daily average flow (1320 MGD).

   Loading, lbs/day = [(limit, mg/L)(Flow, MGD)(8.345) (2 hrs/24 hrs)]* (no. of generating units)

   Daily Maximum = [(0.2 mg/L)(1320 MGD)(8.345)/12]*(8 units) = 1468.72 lbs/day

   *Daily maximum limitation has been reduced to 0.1 mg/L to allow for alternate chlorination in the future for mitigation of Zebra Mussel and the mass limitations have been removed.

Internal Outfalls 101, 201, 401, and 801 (low volume waste): BPT effluent limitations apply to the discharge of low volume waste and can be applied to water treatment wastes, non-contact cooling water from the evaporative coolers, condensate water, water box drainage, vault water, cooling water, quench water, and wash water based on BPJ.

a. BPT for total suspended solids and oil and grease effluent limitations according to 40 CFR § 423.12(b)(3).

   Total Suspended Solids (TSS):
   Daily Average = 30 mg/L

[1] V.H. Braunig Power Station is not limited to only running and/or chlorinating one unit per day.

Daily Maximum = 100 mg/L

Oil and Grease
Daily Average = 15 mg/L
Daily Maximum = 20 mg/L

b. According to BPT at 40 CFR § 423.12(b)(1), the pH of all discharges, except once-through cooling water, shall be within the range of 6.0-9.0 standard units.

Internal Outfall 101 – The existing permit authorizes no pH effluent limits, since pH effluent limits were applied at Outfall 001.

Internal Outfalls 201, 401, and 801 – According to a letter dated September 25, 1992, the pH of the make-up water from Braunig Lake, as measured at the inlet, is regularly at or above 9.0 standard units. Previously, pH samples in the inlet were at or above 9.0 standard units and a maximum pH of 10.0 standard units was applied to these outfalls. The maximum pH limit of 10.0 standards units at Outfalls 201, 401, and 801 is continued in the draft permit.

Internal Outfalls 501, 601, and Outfalls 006, 007, 008, 011, and 013 stormwater discharges are not subject to effluent limitation guidelines. The existing permit effluent limits for chemical oxygen demand and oil and grease were established based on BPJ of stormwater discharges and can be applied to water treatment wastes, neutralization pit water, condensate tank drainage, condensate water, vault water, and wash water based on BPJ.

a. Chemical Oxygen Demand (COD)
Daily Average = N/A
Daily Maximum = 200 mg/L

b. Oil and Grease
Daily Average = N/A
Daily Maximum = 15 mg/L

c. pH (Between 6.0 and 9.0 standard units.)

Internal Outfall 701 stormwater discharges are not subject to effluent limitation guidelines. The existing permit effluent limits for TSS, COD, and oil and grease were established based on BPJ of stormwater discharges and can be applied to wash water, vault water, water treatment wastes, and non-contact cooling water from the evaporative coolers based on BPJ.

a. TSS
Daily Average = N/A
Daily Maximum = Report

b. COD
Daily Average = N/A
Daily Maximum = 200 mg/L

c. Oil and Grease
Daily Average = N/A
Daily Maximum = 15 mg/L

d. pH (Between 6.0 and 10.0 standard units)

Internal Outfall 901 stormwater runoff from a concrete drainage area is not subject to effluent limitation guidelines. The existing permit effluent limits for TSS, COD, and oil and grease were established based on BPJ of stormwater discharges and can be applied to wash water and vault water based on BPJ.

a. TSS
Daily Maximum = Report, mg/L

b. COD
Daily Average = N/A
Daily Maximum = 200 mg/L

c. Oil and Grease
Daily Maximum = 20 mg/L

d. pH (Between 6.0 and 10.0 standard units)

Outfalls 003, 009, 010, 015, 016, 017, 018 and 019 stormwater discharges are not subject to effluent limitation guidelines. The existing permit effluent limits for COD and oil and grease were established based on BPJ of stormwater discharges and can be applied to wash water, vault water, water treatment wastes, condensate tank (water) drainage, and neutralization pit water based on BPJ.

a. COD
Daily Average = N/A
Daily Maximum = 200 mg/L

b. Oil and Grease
Daily Average = N/A
Daily Maximum = 15 mg/L

pH (Between 6.0 and 9.0 standard units)

Appendix B
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #4 - LAKE OR RESERVOIR

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City Public Service of San Antonio
TPDES Permit No:	WQ0001515000
Outfall No:	001
Prepared by:	Thomas Starr
Date:	June 18, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Braunig Lake
Segment No.:	1911
TSS (mg/L):	4
pH (Standard Units):	7.4
Hardness (mg/L as $CaCO_3$):	204
Chloride (mg/L):	59
Effluent Flow for Aquatic Life (MGD):	1173
% Effluent for Chronic Aquatic Life (Mixing Zone):	100
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	637
% Effluent for Human Health:	100
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Lake/Reservoir Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	173978.75	0.590		1.00	Assumed
Cadmium	6.55	-0.92	991071.09	0.201		1.00	Assumed
Chromium (total)	6.34	-0.27	1504678.80	0.142		1.00	Assumed
Chromium (trivalent)	6.34	-0.27	1504678.80	0.142		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.45	-0.90	809367.96	0.236		1.00	Assumed
Lead	6.31	-0.53	979282.98	0.203		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	6.34	-0.76	762841.67	0.247		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	575278.59	0.303		1.00	Assumed
Zinc	6.52	-0.68	1290028.21	0.162		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	0.960	N/A	1.41	2.98
Aluminum	991	N/A	991	N/A	317	N/A	466	986
Arsenic	340	150	577	254	185	155	228	482
Cadmium	17.16	0.403	85.2	2.00	27.3	1.22	1.79	3.80
Carbaryl	2.0	N/A	2.00	N/A	0.640	N/A	0.940	1.99
Chlordane	2.4	0.004	2.40	0.00400	0.768	0.00244	0.00358	0.00758
Chlorpyrifos	0.083	0.041	0.0830	0.0410	0.0266	0.0250	0.0367	0.0777
Chromium (trivalent)	1022	132.9	7170	933	2295	569	836	1769
Chromium (hexavalent)	15.7	10.6	15.7	10.6	5.02	6.47	7.38	15.6
Copper	27.80	17.41	118	73.8	37.7	45.0	55.4	117
Cyanide (free)	45.8	10.7	45.8	10.7	14.7	6.53	9.59	20.2
4,4'-DDT	1.1	0.001	1.10	0.00100	0.352	0.000610	0.000896	0.00189
Demeton	N/A	0.1	N/A	0.100	N/A	0.0610	0.0896	0.189
Diazinon	0.17	0.17	0.170	0.170	0.0544	0.104	0.0799	0.169
Dicofol [Kelthane]	59.3	19.8	59.3	19.8	19.0	12.1	17.7	37.5
Dieldrin	0.24	0.002	0.240	0.00200	0.0768	0.00122	0.00179	0.00379
Diuron	210	70	210	70.0	67.2	42.7	62.7	132
Endosulfan I (*alpha*)	0.22	0.056	0.220	0.0560	0.0704	0.0342	0.0502	0.106
Endosulfan II (*beta*)	0.22	0.056	0.220	0.0560	0.0704	0.0342	0.0502	0.106
Endosulfan sulfate	0.22	0.056	0.220	0.0560	0.0704	0.0342	0.0502	0.106
Endrin	0.086	0.002	0.0860	0.00200	0.0275	0.00122	0.00179	0.00379
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0100	N/A	0.00610	0.00896	0.0189
Heptachlor	0.52	0.004	0.520	0.00400	0.166	0.00244	0.00358	0.00758
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.0800	0.360	0.0488	0.0717	0.151
Lead	139.0	5.42	684	26.6	219	16.3	23.8	50.5
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00610	0.00896	0.0189
Mercury	2.4	1.3	2.40	1.30	0.768	0.793	1.12	2.38
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0183	0.0269	0.0569
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000610	0.000896	0.00189
Nickel	856	95.1	3467	385	1110	235	345	730
Nonylphenol	28	6.6	28.0	6.60	8.96	4.03	5.91	12.5
Parathion (ethyl)	0.065	0.013	0.0650	0.0130	0.0208	0.00793	0.0116	0.0246
Pentachlorophenol	13.0	10.00	13.0	10.0	4.17	6.10	6.13	12.9
Phenanthrene	30	30	30.0	30.0	9.60	18.3	14.1	29.8
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0140	0.640	0.00854	0.0125	0.0265
Selenium	20	5	20.0	5.00	6.40	3.05	4.48	9.48
Silver	0.8	N/A	13.4	N/A	4.29	N/A	6.30	13.3
Toxaphene	0.78	0.0002	0.780	0.000200	0.250	0.000122	0.000179	0.000379
Tributyltin [TBT]	0.13	0.024	0.130	0.0240	0.0416	0.0146	0.0215	0.0455
2,4,5 Trichlorophenol	136	64	136	64.0	43.5	39.0	57.3	121
Zinc	214.4	216.1	1321	1331	423	812	621	1314

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	115	107	157	332
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000115	0.0000107	0.0000156	0.0000331
Anthracene	1109	1317	13170	1317	1225	1800	3809
Antimony	6	1071	10710	1071	996	1464	3097
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	581	540	794	1680
Benzidine	0.0015	0.107	1.07	0.107	0.0995	0.146	0.309
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0250	0.0233	0.0341	0.0723
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00250	0.00233	0.00341	0.00723
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.275	0.255	0.375	0.793
Bis(2-chloroethyl)ether	0.60	42.83	428.3	42.8	39.8	58.5	123
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phth	6	7.55	75.5	7.55	7.02	10.3	21.8
Bromodichloromethane [Dichlorobromomethane	10.2	275	2750	275	256	375	795
Bromoform [Tribromomethane]	66.9	1060	10600	1060	986	1449	3065
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	46.0	42.8	62.8	133
Chlordane	0.0025	0.0025	0.025	0.00250	0.00233	0.00341	0.00723
Chlorobenzene	100	2737	27370	2737	2545	3741	7916
Chlorodibromomethane [Dibromochloromethane	7.5	183	1830	183	170	250	529
Chloroform [Trichloromethane]	70	7697	76970	7697	7158	10522	22262
Chromium (hexavalent)	62	502	5020	502	467	686	1451
Chrysene	2.45	2.52	25.2	2.52	2.34	3.44	7.28
Cresols [Methylphenols]	1041	9301	93010	9301	8650	12715	26901
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00200	0.00186	0.00273	0.00578
4,4'-DDE	0.00013	0.00013	0.0013	0.000130	0.000121	0.000177	0.000375
4,4'-DDT	0.0004	0.0004	0.004	0.000400	0.000372	0.000546	0.00115
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	473	440	646	1368
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	4.24	3.94	5.79	12.2
m -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	595	553	813	1720
o -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	3299	3068	4510	9541
p -Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	2.24	2.08	3.06	6.47
1,2-Dichloroethane	5	364	3640	364	339	497	1052
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	55114	51256	75346	159406
Dichloromethane [Methylene Chloride]	5	13333	133330	13333	12400	18227	38563
1,2-Dichloropropane	5	259	2590	259	241	354	749
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	119	111	162	344
Dicofol [Kelthane]	0.30	0.30	3	0.300	0.279	0.410	0.867
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000200	0.0000186	0.0000273	0.0000578
2,4-Dimethylphenol	444	8436	84360	8436	7845	11532	24399
Di-*n* -Butyl Phthalate	88.9	92.4	924	92.4	85.9	126	267
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	7.97E-08	7.41E-08	1.08E-07	2.30E-07
Endrin	0.02	0.02	0.2	0.0200	0.0186	0.0273	0.0578
Epichlorohydrin	53.5	2013	20130	2013	1872	2751	5822
Ethylbenzene	700	1867	18670	1867	1736	2552	5399
Ethylene Glycol	46744	1.68E+07	1.68E+08	16800000	15624000	22967280	48590640
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000100	0.0000930	0.000136	0.000289
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000290	0.000270	0.000396	0.000838
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000680	0.000632	0.000929	0.00196
Hexachlorobutadiene	0.21	0.22	2.2	0.220	0.205	0.300	0.636

Parameter	*Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.00840	0.00781	0.0114	0.0242
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.260	0.242	0.355	0.751
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.341	0.317	0.466	0.986
Hexachlorocyclopentadiene	10.7	11.6	116	11.6	10.8	15.8	33.5
Hexachloroethane	1.84	2.33	23.3	2.33	2.17	3.18	6.73
Hexachlorophene	2.05	2.90	29	2.90	2.70	3.96	8.38
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	15982	14863	21848	46224
Lead	1.15	3.83	38.3	18.8	17.5	25.7	54.4
Mercury	0.0122	0.0122	0.122	0.0122	0.0113	0.0166	0.0352
Methoxychlor	2.92	3.0	30	3.00	2.79	4.10	8.67
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	992000	922560	1356163	2869161
Methyl *tert* -butyl ether [MTBE]	15	10482	104820	10482	9748	14329	30317
Nickel	332	1140	11400	4619	4295	6314	13358
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	1873	1742	2560	5417
N-Nitrosodiethylamine	0.0037	2.1	21	2.10	1.95	2.87	6.07
N-Nitroso-di-*n* -Butylamine	0.119	4.2	42	4.20	3.91	5.74	12.1
Pentachlorobenzene	0.348	0.355	3.55	0.355	0.330	0.485	1.02
Pentachlorophenol	0.22	0.29	2.9	0.290	0.270	0.396	0.838
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000640	0.000595	0.000874	0.00185
Pyridine	23	947	9470	947	881	1294	2739
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.240	0.223	0.328	0.694
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	26.4	24.5	36.0	76.2
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	280	260	382	809
Thallium	0.12	0.23	2.3	0.230	0.214	0.314	0.665
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0110	0.0102	0.0150	0.0318
2,4,5-TP [Silvex]	50	369	3690	369	343	504	1067
1,1,1-Trichloroethane	200	784354	7843540	784354	729449	1072290	2268587
1,1,2-Trichloroethane	5	166	1660	166	154	226	480
Trichloroethylene [Trichloroethene]	5	71.9	719	71.9	66.9	98.2	207
2,4,5-Trichlorophenol	1039	1867	18670	1867	1736	2552	5399
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	16.5	15.3	22.5	47.7

Aquatic Life *Parameter*	*70% of Daily Avg. (µg/L)*	*85% of Daily Avg. (µg/L)*
Aldrin	0.987	1.19
Aluminum	326	396
Arsenic	159	193
Cadmium	1.25	1.52
Carbaryl	0.658	0.799
Chlordane	0.00251	0.00304
Chlorpyrifos	0.0257	0.0312
Chromium (trivalent)	585	710
Chromium (hexavalent)	5.16	6.27
Copper	38.7	47.1
Cyanide (free)	6.71	8.15
4,4'-DDT	0.000627	0.000762
Demeton	0.0627	0.0762
Diazinon	0.0559	0.0679
Dicofol [Kelthane]	12.4	15.0
Dieldrin	0.00125	0.00152
Diuron	43.9	53.3
Endosulfan I (*alpha*)	0.0351	0.0426
Endosulfan II (*beta*)	0.0351	0.0426
Endosulfan sulfate	0.0351	0.0426
Endrin	0.00125	0.00152
Guthion [Azinphos Methyl]	0.00627	0.00762
Heptachlor	0.00251	0.00304
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0502	0.0609
Lead	16.7	20.3
Malathion	0.00627	0.00762
Mercury	0.790	0.959
Methoxychlor	0.0188	0.0228
Mirex	0.000627	0.000762
Nickel	241	293
Nonylphenol	4.14	5.03
Parathion (ethyl)	0.00815	0.00990
Pentachlorophenol	4.29	5.21
Phenanthrene	9.87	11.9
Polychlorinated Biphenyls [PCBs]	0.00878	0.0106
Selenium	3.13	3.81
Silver	4.41	5.35
Toxaphene	0.000125	0.000152
Tributyltin [TBT]	0.0150	0.0182
2,4,5 Trichlorophenol	40.1	48.7
Zinc	434	528

Human Health *Parameter*	*70% of Daily Avg. (µg/L)*	*85% of Daily Avg. (µg/L)*
Acrylonitrile	110	133
Aldrin	0.0000109	0.0000133
Anthracene	1260	1530
Antimony	1024	1244
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	555	675
Benzidine	0.102	0.124
Benzo(*a*)anthracene	0.0239	0.0290
Benzo(*a*)pyrene	0.00239	0.00290
Bis(chloromethyl)ether	0.262	0.318
Bis(2-chloroethyl)ether	40.9	49.7
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phth	7.22	8.77
Bromodichloromethane [Dichlorobromomethane	263	319
Bromoform [Tribromomethane]	1014	1231
Cadmium	N/A	N/A
Carbon Tetrachloride	44.0	53.4
Chlordane	0.00239	0.00290
Chlorobenzene	2619	3180
Chlorodibromomethane [Dibromochloromethane	175	212
Chloroform [Trichloromethane]	7365	8944
Chromium (hexavalent)	480	583
Chrysene	2.41	2.92
Cresols [Methylphenols]	8900	10808
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00191	0.00232
4,4'-DDE	0.000124	0.000151
4,4'-DDT	0.000382	0.000464
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	452	549
1,2-Dibromoethane [Ethylene Dibromide]	4.05	4.92
m -Dichlorobenzene [1,3-Dichlorobenzene]	569	691
o -Dichlorobenzene [1,2-Dichlorobenzene]	3157	3833
p -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.14	2.60
1,2-Dichloroethane	348	422
1,1-Dichloroethylene [1,1-Dichloroethene]	52742	64044
Dichloromethane [Methylene Chloride]	12759	15493
1,2-Dichloropropane	247	300
1,3-Dichloropropene [1,3-Dichloropropylene]	113	138
Dicofol [Kelthane]	0.287	0.348
Dieldrin	0.0000191	0.0000232
2,4-Dimethylphenol	8072	9802
Di-*n* -Butyl Phthalate	88.4	107
Dioxins/Furans [TCDD Equivalents]	7.62E-08	9.26E-08
Endrin	0.0191	0.0232
Epichlorohydrin	1926	2339
Ethylbenzene	1786	2169
Ethylene Glycol	16077096	19522188
Fluoride	N/A	N/A
Heptachlor	0.0000956	0.000116
Heptachlor Epoxide	0.000277	0.000336
Hexachlorobenzene	0.000650	0.000790
Hexachlorobutadiene	0.210	0.255

Hexachlorocyclohexane (*alpha*)	0.00803	0.00976
Hexachlorocyclohexane (*beta*)	0.248	0.302
Hexachlorocyclohexane (*gamma*) [Lindane]	0.326	0.396
Hexachlorocyclopentadiene	11.1	13.4
Hexachloroethane	2.22	2.70
Hexachlorophene	2.77	3.36
4,4'-Isopropylidenediphenol [Bisphenol A]	15294	18571
Lead	18.0	21.8
Mercury	0.0116	0.0141
Methoxychlor	2.87	3.48
Methyl Ethyl Ketone	949314	1152738
Methyl *tert* -butyl ether [MTBE]	10030	12180
Nickel	4419	5366
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	1792	2176
N-Nitrosodiethylamine	2.00	2.44
N-Nitroso-di-*n* -Butylamine	4.01	4.88
Pentachlorobenzene	0.339	0.412
Pentachlorophenol	0.277	0.336
Polychlorinated Biphenyls [PCBs]	0.000612	0.000743
Pyridine	906	1100
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.229	0.278
1,1,2,2-Tetrachloroethane	25.2	30.6
Tetrachloroethylene [Tetrachloroethylene]	267	325
Thallium	0.220	0.267
Toluene	N/A	N/A
Toxaphene	0.0105	0.0127
2,4,5-TP [Silvex]	353	428
1,1,1-Trichloroethane	750603	911446
1,1,2-Trichloroethane	158	192
Trichloroethylene [Trichloroethene]	68.8	83.5
2,4,5-Trichlorophenol	1786	2169
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	15.7	19.1

Appendix C
TDS, Chloride, and Sulfate Screening Calculations

:ulations for Total Dissolved Solids, Chloride, and Sulfate
Menu 4 - Discharge to a Lake

Applicant Name:	**City Public Service of San Antonio**
Permit Number, Outfall:	**WQ0001515000, 001**
Segment Number:	**1911**

Enter values needed for screening:			**Data Source (edit if different)**
EF - Effluent fraction at edge of human health MZ	**1**	decimal fraction	Critical conditions memo
CA - TDS - ambient segment concentration	**474**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**59**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**55**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**750**	mg/L	2018 TSWQS, Appendix A
CC - chloride - segment criterion	**150**	mg/L	2018 TSWQS, Appendix A
CC - sulfate - segment criterion	**150**	mg/L	2018 TSWQS, Appendix A
CE - TDS - average effluent concentration	**1460**	mg/L	Permit application
CE - chloride - average effluent concentration	**632**	mg/L	Permit application
CE - sulfate - average effluent concentration	**147**	mg/L	Permit application

Screening Equation

$CC \geq (EF)(CE)+(1-EF)(CA)$

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	750.00
Calculate the LTA	LTA = WLA * 0.93	697.50
Calculate the daily average	Daily Avg. = LTA * 1.47	**1025.33**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**2169.23**
Calculate 70% of the daily average	70% of Daily Avg. =	717.73
Calculate 85% of the daily average	85% of Daily Avg. =	871.53

No permit limitations needed if:	**1460**	**≤**	**717.73**		
Reporting needed if:	**1460**	**>**	**717.73**	**but ≤**	**871.53**
Permit limits may be needed if:	**1460**	**>**	**871.53**		

Permit limits may be needed for TDS

Chloride

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF				150.00
Calculate the LTA	LTA = WLA * 0.93				139.50
Calculate the daily average	Daily Avg. = LTA * 1.47				**205.07**
Calculate the daily maximum	Daily Max. = LTA * 3.11				**433.85**
Calculate 70% of the daily average	70% of Daily Avg. =				143.55
Calculate 85% of the daily average	85% of Daily Avg. =				174.31
No permit limitations needed if:	**632**	**≤**	**143.55**		
Reporting needed if:	**632**	**>**	**143.55**	**but ≤**	**174.31**
Permit limits may be needed if:	**632**	**>**	**174.31**		

Permit limits may be needed for chloride

Sulfate

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF				150.00
Calculate the LTA	LTA = WLA * 0.93				139.50
Calculate the daily average	Daily Avg. = LTA * 1.47				**205.07**
Calculate the daily maximum	Daily Max. = LTA * 3.11				**433.85**
Calculate 70% of the daily average	70% of Daily Avg. =				143.55
Calculate 85% of the daily average	85% of Daily Avg. =				174.31
No permit limitations needed if:	**147**	**≤**	**143.55**		
Reporting needed if:	**147**	**>**	**143.55**	**but ≤**	**174.31**
Permit limits may be needed if:	**147**	**>**	**174.31**		

Reporting needed for sulfate

Conclusion: The analysis provided by City Public Service of San Antonio demonstrates the TDS, chloride, and sulfate of the receiving water body will not be statistically elevated; therefore, it meets the requirements for a once-through cooling water exemption, in accordance with 30 TAC § 307.8(d). Continued montioring and reporting for TDS and chloride are required in support of the once-through cooling water exeption at Outfall 001 but no addition of monitoring for sulfate, in accordance with IPs.

Appendix D
Comparison of Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/ assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	*Parameter*	*Technology-Based*				*Water Quality-Based*				*Existing Permit*			
		Daily Avg		*Daily Max*		*Daily Avg*		*Daily Max*		*Daily Avg*		*Daily Max*	
		mg/L	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*
001	Flow	1320 MGD		1340 MGD		N/A	N/A	N/A	N/A	**1320 MGD**		**1340 MGD**	
	Temperature	N/A	N/A			Report, °F		Report, °F		**Report, °F**		**Report, °F**	
	Free Available Chlorine	0.2	**184** [1]	0.5	**459** [1]	N/A	N/A	N/A	N/A	**0.2**	170	**0.5**	424
	Free Available Chlorine [2]	N/A	N/A	**0.25**	N/A	-	-	-	-	**-**	-	-	-
	Total Residual Chlorine	N/A	N/A	0.2	**1469** [1]	N/A	N/A	N/A	N/A	N/A	N/A	**0.2**	680
	Total Residual Chlorine [2]	N/A	N/A	**0.1**	N/A	-	-	-	-	-	-	-	-
	Total Dissolved Solids	**N/A** [3]	N/A	N/A	N/A	Report	N/A	Report	N/A	Report	N/A	**Report**	N/A
	Chloride	**N/A** [2]	N/A	N/A	N/A	Report	N/A	Report	N/A	Report	N/A	**Report**	N/A
	Sulfate	**-**	-	**-**	-	-	-	**Report**	-	-	-	-	-
	pH	N/A				6.0 SU (min)		10.0 SU (max)		**6.0 SU (min)**		**10.0 SU (max)**	
101	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	30	N/A	100	N/A	N/A	N/A	N/A	N/A	**30**	N/A	**100**	N/A
	Oil and Grease	15	N/A	20	N/A	N/A	N/A	N/A	N/A	**15**	N/A	**20**	N/A
201	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	30	N/A	100	N/A	N/A	N/A	N/A	N/A	**30**	N/A	**100**	N/A
	Oil and Grease	15	N/A	20	N/A	N/A	N/A	N/A	N/A	**15**	N/A	**20**	N/A
	pH	6.0 SU (min)		9.0 SU (max)		N/A				**6.0 SU (min)**		**10.0 SU (max)**	

[1] Calculated technology-based limit used per major amendment request.
[2] On notification of Zebra Mussel mitigation plan (Other Requirement No. 22) and thereafter to the expiration of the permit.
[3] Daily Average is N/A since the frequency is once per six months

Outfall	*Parameter*	*Technology-Based*				*Water Quality-Based*				*Existing Permit*			
		Daily Avg		*Daily Max*		*Daily Avg*		*Daily Max*		*Daily Avg*		*Daily Max*	
		mg/L	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*
401	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	30	N/A	100	N/A	N/A	N/A	N/A	N/A	**30**	N/A	**100**	N/A
	Oil and Grease	15	N/A	20	N/A	N/A	N/A	N/A	N/A	**15**	N/A	**20**	N/A
	pH	6.0 SU (min)		9.0 SU (max)		N/A				**6.0 SU (min)**		**10.0 SU (max)**	
						N/A	N/A	N/A	N/A				
501 & 601	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Chemical Oxygen Demand	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	N/A
	Oil and Grease	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15**	N/A
	pH	6.0 SU (min)		9.0 SU (max)		N/A				6.0 SU (min)		9.0 SU (max)	
701	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	N/A	N/A	Report	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**Report**	N/A
	Chemical Oxygen Demand	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	N/A
	Oil and Grease	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15**	N/A
	pH	6.0 SU (min)		9.0 SU (max)		N/A				**6.0 SU (min)**		**10.0 SU (max)**	
801	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	30	N/A	100	N/A	N/A	N/A	N/A	N/A	**30**	N/A	**100**	N/A
	Oil and Grease	15	N/A	20	N/A	N/A	N/A	N/A	N/A	**15**	N/A	**20**	N/A
	pH	6.0 SU (min)		9.0 SU (max)		N/A				**6.0 SU (min)**		**10.0 SU (max)**	
901	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
	Total Suspended Solids	Report	N/A	Report	N/A	N/A	N/A	N/A	N/A	**Report**	N/A	**Report**	N/A
	Chemical Oxygen Demand	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	N/A
	Oil and Grease	N/A	N/A	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**20**	N/A
	pH	6.0 SU (min)		10.0 SU (max)		N/A				**6.0 SU (min)**		**10.0 SU (max)**	

Outfall	*Parameter*	*Technology-Based*				*Water Quality-Based*				*Existing Permit*			
		Daily Avg		*Daily Max*		*Daily Avg*		*Daily Max*		*Daily Avg*		*Daily Max*	
		mg/L	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*	*mg/L*	*lbs/day*
003,	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
006,	Chemical Oxygen Demand	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	N/A
007,	Oil and Grease	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15**	N/A
008,	pH	6.0 SU (min)		9.0 SU (max)		N/A	N/A	N/A	N/A	**6.0 SU (min)**		**9.0 SU (max)**	
011,													
013,&													
015													
009,	Flow	Report MGD		Report MGD		N/A	N/A	N/A	N/A	**Report MGD**		**Report MGD**	
010,	Chemical Oxygen Demand	N/A	N/A	200	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**200**	N/A
016,	Oil and Grease	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15**	N/A
017,	pH	6.0 SU (min)		9.0 SU (max)		N/A	N/A	N/A	N/A	**6.0 SU (min)**		**9.0 SU (max)**	
018, & 019													