

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



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

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

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

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

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

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

IACX Rock Creek, LLC (CN $\underline{605745843}$) operates IACX Rock Creek Gas Plant ($\underline{RN100216613}$), a natural gas processing plant. The facility is located at 1000 West 10^{th} Street, in Borger, Hutchinson County, Texas 79007. This application is for the renewal of a wastewater discharge permit.

Discharges from the facility are expected to possibly contain oil and grease, total residual chlorine, chromium, and zinc. Industrial wastewater and stormwater are treated by routing it through two ponds prior to discharging through outfall 001. The skimmer pond (B-2) allows for primary settling and oil/water separation. Wastewater is then routed to an aeration basin (B-1) before discharge through outfall 001.

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

AGUAS RESIDUALES INDUSTRIALES/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 son representaciones federales exigibles de la solicitud de permiso.

IACX Rock Creek, LLC (CN 605745843) opera la Planta de Gas de IACX Rock Creek (RN100216613), una planta de procesamiento de gas natural. La instalación está ubicada en 1000 West 10th Street, en Borger, Hutchinson County, Texas 79007. Esta solicitud es para la renovación de un permiso de descarga de aguas residuales.

Se espera que las descargas de la instalación contengan pequeñas cantidades aceite y grasa, cloro residual total, cromo y zinc. Las aguas residuales industriales y pluviales se tratan conduciéndolas a través de dos estanques antes de descargarlas a través del emisario 001. El estanque de skimmer (B-2) permite la sedimentación primaria y la separación de aceite y agua. A continuación, las aguas residuales se dirigen a una balsa de aireación (B-1) antes de descargarse a través del emisario 001.

INSTRUCTIONS

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0005355000

APPLICATION. IACX Rock Creek LLC, 5001 Lyndon B. Johnson Freeway, Suite 300, Dallas, Texas 75244, which owns a natural gas processing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005355000 (EPA I.D. No. TX0009172) to authorize the addition of reverse omosis reject water to discharge via Outfall 001. The facility is located at 1000 West 10th Street, near the city of Borger, in Hutchinson County, Texas 79007. The discharge route is from the plant site to unnamed tributary to Rock Creek, thence to Canadian River Below Lake Meredith. TCEQ received this application on June 18, 2024. The permit application will be available for viewing and copying at Hutchinson County Library, 625 Weatherly Street, Borger, in Hutchinson County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

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

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.410555,35.673888&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from IACX Rock Creek LLC at the address stated above or by calling Mr. Justin Wheeler, CHMM, Director of EHS, at 972-960-3217.

Issuance Date: July 8, 2024

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. WQ0005355000

SOLICITUD. IACX Rock Creek LLC, 5001 Lyndon B. Johnson Freeway, Suite 300, Dallas, Texas 75244, propietaria de una instalación de procesamiento de gas natural, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0005355000 (EPA I.D. No. TX0009172) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de agua de rechazo de ósmosis inversa para descargar a través del Emisario 001. La planta está ubicada 1000 West 10th Street, cerca de la ciudad de Borger, en el Condado de Hutchinson, Texas 79007. La ruta de descarga es del sitio de la planta a una vía afluente sin nombre de Rock Creek, de allí al río canadiense debajo del lago Meredith. La TCEQ recibió esta solicitud el día 18 de junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca del condado de Hutchinson, 625 Weatherly Street, Borger, 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=-101.410555,35.673888&level=18

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

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

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

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

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

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

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

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 específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del IACX Rock Creek LLC a la dirección indicada arriba o llamando a Justin Wheeler al 972-960-3217.

Fecha de emisión el 8 de julio de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



COMBINED

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN A WATER QUALITY PERMIT (NORI)

AND

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

AMENDMENT

Permit No. WQ0005355000

APPLICATION AND PRELIMINARY DECISION. IACX Rock Creek LLC, 5445 DTC Parkway, Greenwood Village, Colorado 80111, which operates IACX Rock Creek Gas Plant, a natural gas processing plant, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment of Railroad Commission of Texas Discharge Permit No. 00190 and EPA NPDES Permit No. TX0009172 and combining these two permits into the first time issuance of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005355000 to add a reverse osmosis treatment system to supplement the treatment of onsite water and to increase the BOD₅ mass loading limits based upon the updated flow rate. The reject water from this system will constitute an added waste stream. The draft permit authorizes the discharge of water treatment wastes, cooling tower blowdown, boiler system blowdown, stormwater, wastewaters from the zeolite treater (backwash) and the inlet air cab (moisture generated while cooling inlet air for one of the facility's turbine compressor engines) via Outfall 001 at a daily average dry weather flow not to exceed 69,500 gallons per day. The TCEQ received this application on June 18, 2024.

This combined notice is being issued because the applicant's mailing address and permittee contact information has changed from what was listed in the original NORI. The original NORI also did not list all of the authorized waste streams, and the revised NORI/NAPD uses the term "water treatment wastes" instead of reverse osmosis reject water as in the original NORI.

The facility is located at 1000 West 10th Street, in the City of Borger, Hutchinson County, Texas 79007. 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=-101.410555,35.673888&level=18

The effluent is discharged to an unnamed tributary of Rock Creek, thence to Rock Creek, thence to Canadian River Below Lake Meredith in Segment No. 0101 of the Canadian River Basin. The unclassified receiving water uses are limited aquatic life use for the unnamed tributary and limited aquatic life use for Rock Creek. The designated uses for Segment No. 0101 are primary contact recreation and high aquatic life use.

In accordance with 30 Texas Administrative Code §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. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and 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 the Hutchinson County Library, 625 Weatherly Street, Borger, Texas. The application 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 IACX Rock Creek LLC at the address stated above or by calling Mr. Mark McKenna, VP HSSE & Regulatory, at 202-505-2832.

Issued: December 9, 2025

Comisión De Calidad Ambiental Del Estado De Texas



CONJUNTO

AVISO DE RECEPCIÓN DE LA SOLICITUD Y LA INTENCIÓN DE OBTENER CALIDAD DEL AQUA PERMISO MODIFICACIÓN (NORI)

 \mathbf{Y}

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. WQ0005355000

SOLICITUD Y DECISIÓN PRELIMINAR. IACX Rock Creek LLC, 5445 DTC Parkway, Greenwood Village, Colorado 80111, que opera la Planta de Gas IACX Rock Creek, una planta de procesamiento de gas natural, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) una modificación importante del Permiso de Descarga no. 00190 de la Comisión de Ferrocarriles de Texas y del Permiso NPDES no. TX0009172 de la EPA, y la combinación de ambos permisos en la primera emisión del Permiso no. WQ0005355000 del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) para añadir un sistema de tratamiento por ósmosis inversa que complemente el tratamiento del agua in situ y aumente los límites de carga másica de BOD5 según el caudal actualizado. El agua de rechazo de este sistema constituirá un flujo de residuos adicional. El proyecto de permiso autoriza la descarga de desechos de tratamiento de agua, purga de torres de enfriamiento, purga del sistema de calderas, aguas pluviales, aguas residuales del tratador de zeolita (retrolavado) y la cabina de aire de entrada (humedad generada mientras se enfría el aire de entrada de uno de los motores del compresor de turbina de la instalación) a través del emisario 001 con un caudal promedio diario en clima seco que no exceda los 69,500 galones por día. La TCEQ recibió esta solicitud el 18 de junio de 2024.

Este aviso combinado se emite debido a que la dirección postal del solicitante y la información de contacto del titular del permiso han cambiado con respecto a lo que figuraba en el NORI original. El NORI original tampoco incluía todos los flujos de residuos autorizados, y el NORI/NAPD revisado utiliza el término "residuos de tratamiento de agua" en lugar de agua de rechazo de ósmosis inversa, como en el NORI original.

La instalación está ubicada en 1000 West 10th Street, en la ciudad de Borger, condado de Hutchinson, Texas 79007. Este enlace a un mapa electrónico de la ubicación general del sitio o la instalación se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud. Español:

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.410555,35.673888&level=18

El efluente se descarga a un afluente sin nombre de Rock Creek, de allí a Rock Creek, de allí al río Canadian debajo del lago Meredith en el segmento no. 0101 de la cuenca del río Canadian. Los usos no clasificados del agua receptora son el uso limitado de la vida acuática para el afluente sin nombre y el uso limitado de la vida acuática para Rock Creek. Los usos designados para el segmento no. 0101 son la recreación de contacto primario y el uso intensivo de la vida acuática.

De conformidad con el Código Administrativo de Texas 30 §307.5 y los Procedimientos de la TCEQ para implementar los Estándares de calidad del agua superficial de Texas (junio de 2010), se realizó una revisión de antidegradación de las aguas receptoras. Una revisión de antidegradación de Nivel 1 ha determinado preliminarmente que los usos existentes de la calidad del agua no se verán afectados por esta acción del permiso. Se mantendrán los criterios numéricos y narrativos para proteger los usos existentes. Esta revisión ha determinado preliminarmente que no existen cuerpos de agua con usos excepcionales, altos o intermedios para la vida acuática dentro del tramo fluvial evaluado; por lo tanto, no se requiere una determinación de degradación de Nivel 2. No se prevé una degradación significativa de la calidad del agua en cuerpos de agua con usos excepcionales, altos o intermedios para la vida acuática aguas abajo, y se mantendrán y protegerán los usos existentes. La determinación preliminar puede reexaminarse y modificarse si se recibe nueva información.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. De aprobarse, este borrador establecería las condiciones bajo las cuales debe operar la instalación. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, de emitirse, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su consulta y copia en la Biblioteca del Condado de Hutchinson, 625 Weatherly Street, Borger, Texas. La solicitud y los avisos asociados están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pendingpermits/tpdes-applicationsEl

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. 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.

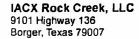
Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a https://www.tceq.texas.gov/goto/comment. Tenga 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.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en https://www.tceq.texas.gov/goto/cid/. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www.tceq.texas.gov/goto/comment, 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 https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del IACX Rock Creek LLC a la dirección indicada arriba o llamando a **Mr. Mark McKenna**, **VP HSSE & Regulatory al 202-505-2832**.

Fecha de emission: 9 de diciembre de 2025





June 17, 2024

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

RE: Permit Renewal and Major Amendment Application for TPDES Permit No. WQ0005355000

Dear Sir/Madam:

IACX Rock Creek LLC ("IACX") is filing this permit application for permit renewal and major amendment of TPDES Permit No. WQ0005355000. Required forms and associated attachments are presented in the attached application.

As required, we have included one original (with an original wet-ink signature) and two copies of the completed application, including the entire Administrative Report and Technical Report and all required Worksheets. Additionally, an electronic copy has been submitted via TCEQ's file transfer protocol (FTP) server to WQDeCopy@tceq.texas.gov.

Please contact me at 972-960-3217 if you have any questions or would like to discuss.

Sincerely,

Justin Wheeler, Director of EHS

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IACX Management

Attachments:

Administrative Report

Technical Report

Attachment 1: Fee Payment Documentation

Attachment 2: Core Data Form

Attachment 3: Public Involvement Plan (PIP) Form (TCEQ Form 20960)

Attachment 4: USGS Topographic Map Attachment 5: Affected Landowner Map

Attachment 6: Landowners List Attachment 7: Original Photographs

Attachment 8: Supplemental Permit Information Form (SPIF) and Attachments

Attachment 9: Facility Map

Attachment 10: Flow Schematic with Water Balance

Attachment 11: Safety Data Sheets (SDS)

Attachment 12: Contract Laboratory Information

Attachment 13: Analytical Data

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ INDUSTRIAL WASTEWATER PERMIT APPLICATION

INDUSTRIAL ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report

Item 1. Application Information and Fees (Instructions, Page 25)

a.	Complete each field with the requested information, if applicable. Applicant Name: IACX Rock Creek, LLC EPA ID No.: TX0009172 Permit No.: WQ0005355000 Expiration Date: 6/30/2024					
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 ap ☑ Active □	propriate fac Inactive	cility status.			
d.	Check the box next to the ap ☑ TPDES Permit □	propriate per TLAP	rmit type.			
e.	e. Check the box next to the appropriate application type. □ New □ Renewal with changes □ Renewal without changes □ Major amendment with renewal □ Minor amendment without renewal □ Minor modification without renewal					
f. g.	. If applying for an amendment or modification, describe the request: <u>IACX added a reverse osmosis</u> system and are requesting an amendment to the permit to include this additional wastewater stream.					
δ.	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 ¹	\$2,050	\$2,015	\$450	
Seg Exp	For TCEQ Use Only Segment NumberCounty Expiration DateRegion Permit Number					

¹ All facilities are designated as minors until formally classified as a major by EPA.

11.	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: 709608 Copy of voucher attachment: 1					
It€	em 2. Applicant Information (Instructions, Pages 25)					
a.	Customer Number, if applicant is an existing customer: <u>CN605745843</u>					
	Note: Locate the customer number using the <u>TCEO's Central Registry Customer Search</u> ² .					
b.	Legal name of the entity (applicant) applying for this permit: <u>IACX Rock Creek, LLC</u>					
	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.)					
	⊠ Mr. □ Ms. First/Last Name: <u>Justin Wheeler</u>					
	Title: <u>Director of EHS</u> Credential: <u>CHMM</u>					
d.	Will the applicant have overall financial responsibility for the facility? \boxtimes Yes \square No					
	Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.					
Ite	em 3. Co-applicant Information (Instructions, Page 26)					
\boxtimes	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): <u>CNClick to enter text.</u>					
	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 \S 305.44.)					
	☐ Mr. ☐ Ms. First/Last Name: <u>Click to enter text.</u>					
	Title: <u>Click to enter text.</u> Credential: <u>Click to enter text.</u>					
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.					

² https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Item 4. Core Data Form (Instructions, Pages 26)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and coapplicant(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: 2

Item 5. Application Contact Information (Instructions, Page 26)

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. $oxed{\boxtimes}$ Administrative Contact . $oxed{\boxtimes}$ Technical Contact

☑ Mr. □ Ms. Full Name (First and Last): <u>David McWethy</u>

Title: EHS Specialist Credential: CSP

Organization Name: **IACX Energy LLC**

Mailing Address: 5001 LBJ Freeway, Suite 300

City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: <u>972-634-0832</u> Fax No: <u>Click to enter text.</u> Email: <u>davidmcwethy@iacx.xom</u>

☑ Mr. ☐ Ms. Full Name (First and Last): Justin Wheeler

Title: <u>Director of EHS</u> Credential: <u>CHMM</u>

Organization Name: **IACX Energy LLC**

Mailing Address: 5001 LBJ Freeway, Suite 300

City: Dallas State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: 972-960-3217 Fax No: Click to enter text. Email: justinwheeler@iacx.com

Attachment: N/A

Item 6. Permit Contact Information (Instructions, Pages 26)

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

a. Mr. Ms. Full Name (First and Last): <u>David McWethy</u>

Title: EHS Specialist Credential: CSP

Organization Name: IACX Energy LLC

Mailing Address: 5001 LBJ Freeway, Suite 300

City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: <u>972-634-0832</u> Fax No: <u>Click to enter text.</u> Email: <u>davidmcwethy@iacx.xom</u>

b. ⊠ Mr. □ Ms. Full Name (First and Last): Justin Wheeler

Title: Director of EHS Credential: CHMM

Organization Name: IACX Energy LLC

Mailing Address: 5001 LBJ Freeway, Suite 300

City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: 972-960-3217 Fax No: Click to enter text. Email: justinwheeler@iacx.com

Attachment: N/A

Item 7. Billing Contact Information (Instructions, Page 27)

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.

☑ Mr. □ Ms. Full Name (First and Last): <u>Justin Wheeler</u>

Title: <u>Director of EHS</u> Credential: <u>CHMM</u>

Organization Name: **IACX Energy LLC**

Mailing Address: 5001 LBJ Freeway, Suite 300

City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: <u>972-960-3217</u> Fax No: <u>Click to enter text.</u> Email: <u>justinwheeler@iacx.com</u>

Item 8. DMR/MER Contact Information (Instructions, Page 27)

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.

☑ Mr. □ Ms. Full Name (First and Last): <u>Justin Wheeler</u>

Title: Director of EHS Credential: CHMM

Organization Name: **IACX Energy LLC**

Mailing Address: 5001 LBJ Freeway, Suite 300

City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>

Phone No: 972-960-3217 Fax No: Click to enter text. Email: justinwheeler@iacx.com

Item 9. NOTICE INFORMATION (Instructions, Pages 27

a.	Individual	Publis	shing	the l	Notices
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☑ Mr. □ Ms. Full Name (First and Last): <u>Justin Wheeler</u>

Title: <u>Director of EHS</u> Credential: <u>CHMM</u>

Organization Name: **IACX Energy LLC**

Mailing Address: 5001 LBJ Freeway, Suite 300

City: Dallas State: Texas Zip Code: 75244

Phone No: <u>972-960-3217</u> Fax No: <u>Click to enter text.</u> Email: <u>justinwheeler@iacx.com</u>

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: <u>justinwheeler@iacx.com</u>

 \square Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

c.	Co	ontact in the Notice				
		🛚 Mr. 🔲 Ms 🏻 Full Name (First and La	ast): <u>Justin Wheeler</u>			
	Tit	itle: <u>Director of EHS</u>	ential: <u>CHMM</u>			
	Org	rganization Name: <u>IACX Energy LLC</u>				
	Pho	hone No: <u>972-960-3217</u> Fax N	lo: Click to enter te	xt.	Email: <u>justinwheeler@iacx.com</u>	
d.	Pul	ublic Viewing Location Information				
		Tote: If the facility or outfall is locate ach county.	d in more than one	coun	ty, provide a public viewing place	e for
	Pul	ublic building name: <u>Hutchison Co I</u>	<u>ibrary</u> L	ocatio	on within the building: <u>Front Des</u> l	<u>k</u>
	Phy	hysical Address of Building: <u>625 We</u>	atherly St			
	Cit	ity: <u>Borger</u> County: <u>Hutchison</u>				
e.	Bili	ilingual Notice Requirements				
	This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.					
	nee	his section of the application is only eeded. Complete instructions on pu otice package.				ıblic
		lease call the bilingual/ESL coordina ne following information to determi				ain
1. Is a bilingual education program required by the Texas Education Code at the el middle school nearest to the facility or proposed facility?				ication Code at the elementary o	r	
		⊠ Yes □ No				
		If no, publication of an alternative Entity and Permitted Site Informa	0 0	not re	equired; skip to Item 8 (Regulated	d
	2.	. Are the students who attend either bilingual education program at th	er the elementary so at school?	chool	or the middle school enrolled in	a
		⊠ Yes □ No				
	3.	. Do the students at these schools	attend a bilingual ed	ducati	on program at another location?	
		□ Yes ⊠ No				
	4.	. Would the school be required to p waived out of this requirement ur				
		☐ Yes ☒ No ➡ N/A				
	5.	. If the answer is yes to question 1, required. Which language is requi				
f	Pla	lain Language Summary Template –	Complete the Plain	Langi	gage Summary at the end of this	

application.

Item 10. Regulated Entity and Permitted Site Information (Instructions Pages 28-30)

	/			
a.	TCEQ issued Regulated Entity Number (RN), if available: RN100216613			
	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): <u>Rock Creek Gas Plant</u>			
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:			
	☐ Mr. ☐ Ms. Full Name (First and Last): <u>Click to enter text.</u>			
	or Organization Name: <u>IACX Rock Creek, LLC</u>			
	Mailing Address: 5001 LBJ Freeway, Suite 300			
	City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>			
	Phone No: <u>972-960-3217</u> Fax No: <u>Click to enter text.</u> Email: <u>justinwheeler@iacx.com</u>			
e.	Ownership of facility: \square Public \boxtimes Private \square Both \square Federal			
f.	Owner of land where treatment facility is or will be: <u>IACX Rock Creek, LLC</u>			
	☐ Mr. ☐ Ms. Full Name (First and Last): <u>Click to enter text.</u>			
	or Organization Name: <u>IACX Rock Creek, LLC</u>			
	Mailing Address: 5001 LBJ Freeway, Suite 300			
	City: <u>Dallas</u> State: <u>Texas</u> Zip Code: <u>75244</u>			
	Phone No: <u>972-960-3217</u> Fax No: <u>Click to enter text.</u> Email: <u>justinwheeler@iacx.com</u>			
	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: <u>Click to enter text</u>			
g.	Owner of effluent TLAP disposal site (if applicable): <u>N/A</u>			
	☐ Mr. ☐ Ms. Full Name (First and Last): <u>Click to enter text.</u>			
	or Organization Name: <u>Click to enter text.</u>			
	Mailing Address: Click to enter text.			
	City: Click to enter text. State: Click to enter text. Zip Code: Click to enter text.			
	Phone No: <u>Click to enter text.</u> Fax No: <u>Click to enter text.</u> Email: <u>Click to enter text.</u>			
	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):			
	☐ Mr. ☐ Ms. Full Name (First and Last): <u>N/A</u>			
	or Organization Name: Click to enter text.			

Mailing Address: Click to enter text.

Zip Code: Click to enter text. City: Click to enter text. State: Click to enter text. Phone No: Click to enter text. Fax 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: <u>Click to enter text.</u>

1

Ite	em 11. TDPES Discharge/TLAP Disposa	l Information (Instructions, Pages 30-32)	
a.	Is the facility located on or does the treated eff \square Yes \boxtimes No	luent cross Native American Land?	
b.	b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.		
	☑ One-mile radius	□ Three-miles downstream information	
	☑ Applicant's property boundaries	☑ Treatment facility boundaries	
	☑ Labeled point(s) of discharge	☑ Highlighted discharge route(s)	
	☐ Effluent disposal site boundaries	☑ All wastewater ponds	
	☐ Sewage sludge disposal site	☐ New and future construction	
	Attachment: <u>4</u>		
c.	Is the location of the sewage sludge disposal si \square Yes \square No or New Permit	te in the existing permit accurate?	
	If no, or a new application, provide an accurate <u>off-site</u>	location description: <u>N/A - Sewage solids hauled</u>	
 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: <u>Click to enter text.</u>	
e. Are the discharge route(s) in the existing permit correct? ☑ Yes ☐ No or New Permit			
		cription of the discharge route: Click to enter text.	
f.	City nearest the outfall(s): <u>Borger</u>		
g.	County in which the outfalls(s) is/are located: I	<u> Hutchinson</u>	
h.	Is or will the treated wastewater discharge to a flood control district drainage ditch? ☐ Yes ☒ No	city, county, or state highway right-of-way, or a	
	If yes, indicate by a check mark if: \square Authoriza	ation granted Authorization pending	
	For new and amendment applications, attach or provide the approval letter upon receipt. Attach	opies of letters that show proof of contact and	
	For all applications involving an average daily of	discharge of 5 MGD or more, provide the names of ownstream of the point(s) of discharge: Click to enter	
i.	For TLAPs, is the location of the effluent dispo	sal 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.
j.	City nearest the disposal site: <u>Click to enter text.</u>
k.	County in which the disposal site is located: <u>Click to enter text.</u>
l.	Disposal Site Latitude: <u>Click to enter text.</u> Longitude: <u>Click to enter text.</u>
m.	For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: <u>Click to enter text.</u>
n.	For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Click to enter text.</u>
Ite	em 12. MISCELLANEOUS INFORMATION (Instructions, Page 32)
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: <u>Click to enter text.</u>
b.	Do you owe any fees to the TCEQ?
	□ Yes ⋈ No
	If yes, provide the account no.: <u>Click to enter text.</u> and total amount due: <u>Click to enter text.</u>
c.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes, provide the enforcement order no.: <u>Click to enter text.</u> and amount due: <u>Click to enter text.</u>

Item 13. SIGNATURE PAGE (Instructions, Pages 32-33)

Permit No: WQ0005355000

Applicant Name: IACX Rock Creek, LLC

Certification: I, <u>Justin Wheeler</u>, 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): <u>Justin Wheeler</u>

Signatory title: <u>Director of EHS</u>	2			
Signature: Justo (Use b)	lue ink)	_	Date: 6/17	124
Subscribed and Sworn to before	me by the said _	Justin	Wheeler	
on this		day of	Tune	, 2024_
My commission expires on the	25th	day of	June	_, 20 27
Notary Public Dallas	KEVIN Notary Pub Comm. Ex	D. MCQUEEN olic, State of Texas opires 08-25-2027 ID 126049900	[SEAL]	
on this 17^{+} My commission expires on the	KEVIN Notary Pub	day of day of D. MCQUEEN Olic, State of Texas opires 08-25-2027	June	

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

INDUSTRIAL ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

a.

b.

d.

e.

Item 1. AFFECTED LANDOWNER INFORMATION (Instructions, Pages 34-35)

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: <u>5</u>
Check the box next to the format of the landowners list:
☐ Readable/Writeable CD Four sets of labels
Attachment: <u>6</u>
Provide the source of the landowners' names and mailing addresses: <u>Hutchinson County Appraisal District</u>
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): <u>Click to enter text.</u>

Item 2. Public Involvement Plan Form (Instructions, Page 36)

Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit.

Item 3. ORIGINAL PHOTOGRAPHS (Instructions, Page 36)

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: 7

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TEXAS COMMISSION ON ENVIRONMENTAL OUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
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 36)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

- 1. Permittee Name: <u>IACX Rock Creek, LLC</u>
- 2. Permit No.: WQ0005355000 EPA ID No.: TX0009172
- 3. Address of the project (location description that includes street/highway, city/vicinity, and county): 1000 West 10th Street, Borger, TX 79007
- 4. Provide the name, address, phone and fax number, and email address of an individual that can be contacted to answer specific questions about the property.

Full Name (First and Last): Justin Wheeler

Organization Name: IACX Rock Creek, LLC Mailing Address: 5001 LBJ Freeway, Suite 300

City: Dallas State: Texas Zip Code: 75244

Phone No: (972) 960-3217 Fax No: N/A Email: justinwheeler@iacx.com

- 5. List the county in which the facility is located: Hutchinson
- 6. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property: N/A
- 7. 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: <u>Wastewater and stormwater discharge from Outfall 001 on the southeast side of</u> the facility to an unnamed waterway, which flows into Rock Creek and continues north.

- 8. 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.) Attachment: 8
- 9. Provide original photographs of any structures 50 years or older on the property. Attachment: $\underline{N/A}$

10.	Does your project involve any of the following? Check all that apply.
	☐ Proposed access roads, utility lines, construction easements
	\square 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

- 11. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): No construction is proposed for this amendment/renewal.
- 12. Describe existing disturbances, vegetation, and land use: <u>Land surrounding outfall is channeled by</u> water flow. Downstream from outfall is active ranching land.

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

- 13. List construction dates of all buildings and structures on the property: <u>Current buildings on-site</u> were built starting in 1976.
- 14. Provide a brief history of the property, and name of the architect/builder, if known: Phillips constructed and operated various processing assets at the site of the current Rock Creek Plant beginning in the late 1920's. Beginning in 1974, Phillips started work on the new plant. The Turbine spun-up in late 1976. This what we call the Rock Creek Gas Plant. Phillips, GPM, Duke, DEFS, DCP an IACX have owned and operated the plant through a continuous chain of title for over forty years.

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 BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088
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: WQ0005355000

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: IACX Rock Creek Gas Plant

Physical Address of Project or Site: 1000 West 10th Street Borger, TX 79007

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 37)

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

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

Full legal name (first, middle, and last): Click to enter text.

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

Date of Birth: <u>Click to enter text.</u>

Mailing Address: <u>Click to enter text.</u>

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

Phone No.: <u>Click to enter text.</u>
Fax No.: <u>Click to enter text.</u>

E-mail Address: Click to enter text.

CN: Click to enter text.

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

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

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

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

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

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

IACX Rock Creek, LLC (CN $\underline{605745843}$) operates IACX Rock Creek Gas Plant ($\underline{RN100216613}$), a natural gas processing plant. The facility is located at 1000 West 10^{th} Street, in Borger, Hutchinson County, Texas 79007. This application is for the renewal of a wastewater discharge permit.

Discharges from the facility are expected to possibly contain oil and grease, total residual chlorine, chromium, and zinc. Industrial wastewater and stormwater are treated by routing it through two ponds prior to discharging through outfall 001. The skimmer pond (B-2) allows for primary settling and oil/water separation. Wastewater is then routed to an aeration basin (B-1) before discharge through outfall 001.

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

AGUAS RESIDUALES INDUSTRIALES/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 son representaciones federales exigibles de la solicitud de permiso.

IACX Rock Creek, LLC (CN 605745843) opera la Planta de Gas de IACX Rock Creek (RN100216613), una planta de procesamiento de gas natural. La instalación está ubicada en 1000 West 10th Street, en Borger, Hutchinson County, Texas 79007. Esta solicitud es para la renovación de un permiso de descarga de aguas residuales.

Se espera que las descargas de la instalación contengan pequeñas cantidades aceite y grasa, cloro residual total, cromo y zinc. Las aguas residuales industriales y pluviales se tratan conduciéndolas a través de dos estanques antes de descargarlas a través del emisario 001. El estanque de skimmer (B-2) permite la sedimentación primaria y la separación de aceite y agua. A continuación, las aguas residuales se dirigen a una balsa de aireación (B-1) antes de descargarse a través del emisario 001.

INSTRUCTIONS

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

outfall/point of disposal. Use additional lines for individual discharge types if necessary.	

Example

Individual Industrial Wastewater Application

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a twounit gas fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred as "previously monitored effluents" (low volume wastewater, metal cleaning waste, and stormwater (from diked oil storage area yards, and storm drains)) via Outfall 001. Low volume waste sources, metal cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low volume waste and metal cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN6000000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam. Low volume wastewater from blowdown of boiler Units 1 and 2 and metal cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal cleaning waste from equipment cleaning is generally disposed of off-site.

TECHNICAL REPORT 1.0 INDUSTRIAL

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, refer to the <u>Instructions for Completing the Industrial Wastewater Permit Application</u>¹ available on the TCEQ website.

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.

1. FACILITY/SITE INFORMATION (Instructions, Pages 39-40)

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 Rock Creek Gas Plant is a natural gas liquids (NGL) plant (Applicable SIC Code is 1321). Compressed gas from surrounding booster sites enters the plant. The gas is sweetened (H2S and CO2 removed) and dehydrated by contact with both amine and glycol dehydration units. The treated gas is further compressed and processed through a cryogenic liquids recovery unit. The natural gas liquids product is sent by pipeline to a refinery for further processing. No major operational changes have occurred since the previous permit renewal in 2017.

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

Industrial wastewater sources include cooling tower blowdown, boiler blowdown, condensed water from the air intake of gas compressor turbines (the inlet air cab), zeolite bed regeneration wastewater, and reverse osmosis reject water. The outfall also discharges stormwater from the facility. Sanitary waste is treated in the permitted septic system, septic tank, and non-discharging leach field on site.

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
Lean Amine	Slop Oil	Y Grade
Rich Amine	Used Oil	Residue Gas
Lean Glycol	Carbon Media	
Rich Glycol	Heat Medium Oil	
Condensate		
Lube Oil		
NGLs		
Methanol		

Attachment: Not required

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: 9					
e.	Is this a new permit application for an existing facility?					
	□ Yes ⊠ No					
	If yes , provide background discussion:					
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: <u>FEMA's National Flood Hazard Layer (NFHL) Viewer</u>					
	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:					
	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?					
	\square Yes \boxtimes No \square N/A (renewal only)					
h.	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:					
	If no , provide an approximate date of application submittal to the USACE:					

2. TREATMENT SYSTEM (Instructions, Page 40)

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

The overall method of effluent treatment has not changed since the previous renewal in 2017. Wastewater is routed through two ponds prior to discharging through outfall 001. The skimmer pond (B-2) allows for primary settling and oil/water separation. Wastewater is then routed to an aeration basin (B-1) before discharge through outfall 001. In 2013, aerators were updated and the baffle wall was reconstructed in the aeration basin. Maintenance on the skimmer pond was also performed by removing accumulated solids. General maintenance activities are conducted, as needed.

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: 10

3. IMPOUNDMENTS (Instructions, Pages 40-42)

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:

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 #B-1	Pond #B-2	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	Т	Т		
Associated Outfall Number	001	001		
Liner Type (C) (I) (S) or (A)	I	I		
Alt. Liner Attachment Reference	N/A	N/A		
Leak Detection System, Y/N	N	N		
Groundwater Monitoring Wells, Y/N	N	N		
Groundwater Monitoring Data Attachment	N/A	N/A		
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y		
Length (ft)	161	83		
Width (ft)	144	45		
Max Depth From Water Surface (ft), Not Including Freeboard	19'	8'		
Freeboard (ft)	2'	2'		
Surface Area (acres)	0.53	0.09		
Storage Capacity (gallons)	1,646,400	88,200		
40 CFR Part 257, Subpart D, Y/N	N	N		
Date of Construction	~1984	~1984		

Impoundment Information

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

Attachment: N/A

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**. Liner data Yes No Not vet designed ii. Leak detection system or groundwater monitoring data No Not vet designed Yes iii. Groundwater impacts Yes No Not yet designed **NOTE:** Item b.iii is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone. **Attachment:** N/A 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:** N/A 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:** N/A 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:** N/A

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

4. OUTFALL/DISPOSAL METHOD INFORMATION (Instructions, Pages 42-43)

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

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

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

Outfall Latitude and Longitude

Outfall Number	Latitude-decimal degrees	Longitude-decimal degrees
001	35.6725	-101.40917

Outfall Location Description

Outfall Number	Location Description
001	Outfall is located at the Southeast corner of the facility

Description of Sampling Points (if different from Outfall location)

Outfall Number	Description of Sampling Point
001	Same as outfall location

Outfall Flow Information – Permitted and Proposed

Outfall Number	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	Report MGD	Report MGD	1	-	Ongoing

Outfall Discharge - Method and Measurement

Outfall Number	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	N	Y	Steel Flume

Outfall Discharge – Flow Characteristics

Outfall Number	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	Y	N	24	28 – 31	12

Wastestream Contributions

Outfall No.: <u>001</u>

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Reverse Osmosis Reject Water	0.012	Variable
Cooling Tower Blowdown	0.014	Variable
Boiler Blowdown	0.028	Variable
Zeolite Treater Regeneration Water	0.003	Variable
Inlet Air Cab	0.0004	Variable
Stormwater Runoff	Variable	Variable

Outfall No.:

Contributing Wastestreams	Volume (MGD)	% of Total Flow

Outfall No.:

Contributing Wastestreams	Volume (MGD)	% of Total Flow

Attachment: N/A

5. BLOWDOWN AND ONCE-THROUGH COOLING WATER DISCHARGES (Instructions, Page 44)

a.			•	e/propose to use any cooling towers which discharge blowdown or other e outfall(s)?
	\boxtimes	Yes		No
	NOT	E: If the	facili	ty uses or plans to use cooling towers, Item 12 is required .
b.	Does outfa		ity use	e or plan to use any boilers that discharge blowdown or other wastestreams to the
	\boxtimes	Yes		No
c.	Does	or will th	he fac	ility discharge once-through cooling water to the outfall(s)?
		Yes		No
	NOT	E: If the	facili	ty uses or plans to use once-through cooling water, Item 12 is required.
d.	If ye :		s 5.a,	5.b, or 5.c, attach the SDS with the following information for each chemical

- 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.

Attach a summary of this information in addition to the submittal of the SDS for each specific wastestream and the associated chemical additives and specify which outfalls are affected.

Attachment: 11

e. Cooling Towers and Boilers

If **yes** to either Item 5.a **or** 5.b, complete the following table.

Cooling Towers and Boilers

Type of Unit Number of Units		Dly Avg Blowdown (gallons/day)	Dly Max Blowdown (gallons/day)	
Cooling Towers	2	13,900	13,900	
Boilers	2	27,500	27,500	

6. STORMWATER MANAGEMENT (Instructions, Page 44)

Are there any existing/proposed outfalls which discharge stormwater associated with industrial activitie	s,
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 some manner which may result in exposure of the activities or materials to stormwater:

7. DOMESTIC SEWAGE, SEWAGE SLUDGE, AND SEPTAGE MANAGEMENT AND DISPOSAL (Instructions, Page 45)

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 treatment or disposal. Complete Worksheet 5.0 or Item 7.b if direct	0 0
	 Domestic sewage is routed (i.e., connected to or transported to) domestic sewage for treatment, disposal, or both. Complete It Domestic sewage disposed of by an on-site septic tank and drain 	em 7.b.
	☐ Domestic and industrial treatment sludge ARE commingled p	• •
	☐ Industrial wastewater and domestic sewage are treated separate commingled prior to sludge use or disposal. Complete Wor	ly, and the respective sludge IS NOT
	☐ Facility is a POTW. Complete Worksheet 5.0 .	G
	☐ 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 receives the domestic sewage/septage. If hauled by motorized vehicles Registration No. of the hauler.	
	Domestic Sewage Plant/Hauler Name	
	Plant/Hauler Name	Permit/Registration No.
	Reed's Pumping Service	RN105356174
	1 0	
8.		RCEMENT
8. a.	IMPROVEMENTS OR COMPLIANCE/ENFO	
	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so	
a.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement?	hedule for compliance or
a.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? □ Yes □ No	hedule for compliance or
a.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? ☐ Yes ☑ No Has the permittee completed or planned for any improvements or	hedule for compliance or construction projects?
a.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? ☐ Yes ☑ No Has the permittee completed or planned for any improvements or ☐ Yes ☑ No If yes to either 8.a or 8.b, provide a brief summary of the requirer	hedule for compliance or construction projects?
а. b. с.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? ☐ Yes ☑ No Has the permittee completed or planned for any improvements or ☐ Yes ☑ No If yes to either 8.a or 8.b, provide a brief summary of the requirements.	hedule for compliance or construction projects?
а. b. с.	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? ☐ Yes ☑ No Has the permittee completed or planned for any improvements or ☐ Yes ☑ No If yes to either 8.a or 8.b, provide a brief summary of the requirer TOXICITY TESTING (Instructions, Page 45) ave any biological tests for acute or chronic toxicity been made on any improvements or the requirements of the req	hedule for compliance or construction projects?
a. b. c. Hawa	IMPROVEMENTS OR COMPLIANCE/ENFO REQUIREMENTS (Instructions, Page 45) Is the permittee currently required to meet any implementation so enforcement? ☐ Yes ☑ No Has the permittee completed or planned for any improvements or ☐ Yes ☑ No If yes to either 8.a or 8.b, provide a brief summary of the requirer TOXICITY TESTING (Instructions, Page 45) ave any biological tests for acute or chronic toxicity been made on arter in relation to the discharge within the last three years?	hedule for compliance or construction projects? ments and a status update:

Attachment: N/A

10. OFF-SITE/THIRD PARTY WASTES (Instructions, Page 45)

via land application, or discharge via a permitted outfall?

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site

	□ 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 na	me and addresses of the generators).
	• Description of the relationship of waste source(s) with the fac	ility's activities.
	Attachment: N/A	
c.	Is or will wastewater from another TCEQ, NPDES, or TPDES per facility's wastewater after final treatment and prior to discharge v	
	□ Yes ⊠ No	
	If yes , provide the name, address, and TCEQ, NPDES, or TPDES facility and a copy of any agreements or contracts relating to this	•
	Attachment: <u>N/A</u>	
d.	Is this facility a POTW that accepts/will accept process wastewate have an approved pretreatment program under the NPDES/TPD	
	□ Yes ⊠ No	
	If yes, Worksheet 6.0 of this application is required.	
11	. RADIOACTIVE MATERIALS (Instructions,	Pages 46)
	·	<u> </u>
a.	Are/will radioactive materials be mined, used, stored, or processe	ed at this facility?
	□ Yes ⊠ No	
	If yes , use the following table to provide the results of one analys materials that may be present. Provide results in pCi/L.	is of the effluent for all radioactive
	Radioactive Materials Mined, Used, Stored, or Processed	
	Radioactive Material	Concentration (pCi/L)

b.	ma		at the facility have any knowledge or reason to believe that radio te discharge, including naturally occurring radioactive materials of property?				
	□ Yes □ No						
	If yes , use the following table to provide the results of one analysis of the effluent for all radioac materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.						
	Ra	dioactive Materials Preser	nt in the Discharge				
	R	adioactive Material	Concentration (pCi/L)				
10		COOLING WATER	(Instructions, Pages 46-47)				
14			· · · · · · · · · · · · · · · · · · ·				
a.			e to use water for cooling purposes?				
		Yes					
	If :	no , stop here. If yes , comple	ete Items 12.b thru 12.f.				
b.	Co	oling water is/will be obtain	ned from a groundwater source (e.g., on-site well).				
		Yes 🗵 No					
	If yes , stop here. If no , continue.						
c.	Co	oling Water Supplier					
	i. 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.				er		
		Cooling Water Intake Str	ucture(s) Owner(s) and Operator(s)				
		CWIS ID	TX1170001				
		Owner	BORGER MUNICIPAL WATER SYSTEM		<u> </u>		
		Operator	CITY OF BORGER				
	ii.	Cooling water is/will be ob	tained from a Public Water Supplier (PWS)				
		⊠ Yes □ No					
		If no , continue. If yes , pro	wide the PWS Registration No. and stop here: PWS No. TX1170	003	L		
	iii.	Cooling water is/will be ob	tained from a reclaimed water source?				
		□ Yes ⊠ No					
		If no , continue. If yes , pro	vide the Reuse Authorization No. and stop here:				

iv.	Cooling water is/will be obtained from an Independent Supplier	
	□ Yes ⊠ No	
	If yes , provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes to the facility and proceed:	
	If no , proceed to Item 12.d.	
316	6(b) General Criteria	
i.	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.	e
	□ Yes ⊠ No	
ii.	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	
iii.	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 \S 122.2.	
	□ Yes ⊠ No	
	If ${\bf no}$, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in 40 CFR § 122.2: N/A	
•	ves to all three questions in Item 12.d, the facility meets the minimum criteria to be subject to the requirements of Section 316(b) of the CWA. Proceed to Item 12.f .	
sub	no to any of the questions in Item 12.d, the facility does not meet the minimum criteria to be oject to the full requirements of Section 316(b) of the CWA; however, a determination is required sed upon BPJ. Proceed to Item 12.e .	
	e facility does not meet the minimum requirements to be subject to the fill requirements of Section 6(b) and uses/proposes to use cooling towers.	
\boxtimes	Yes No	
•	ves, stop here. If no , complete Worksheet 11.0, Items 1(a), 1(b)(i-iii) and (vi), 2(b)(i), and 3(a) to ow for a determination based upon BPJ.	
Oil	and Gas Exploration and Production	
i.	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.	
ii.	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)(i-iii) and (vi), 2(b)(i), and 3(a) to allow for a determination based upon BPJ. If no , skip to Item 12.g.iii.	

d.

e.

f.

g.	Co	ompliance Phase and Track Selection
	i.	Phase I – New facility subject to 40 CFR Part 125, Subpart I
		□ Yes ⊠ No
		If yes , check the box next to the facility's 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: N/A
	ii.	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.
	iii.	. Phase III – New facility subject to 40 CFR Part 125, Subpart N
		□ Yes ⊠ No
		If yes , check the box next to the facility's 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 the CWIS latitude and 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: N/A

NOTE: Item 13 is required only for existing permitted facilities.

13. PERMIT CHANGE REQUESTS (Instructions, Pages 49-50)

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.
	A reverse osmosis treatment system has been added to the facility to supplement the treatment of onsite water. The reject water from this system will constitute an added waste stream.
b.	Is the facility requesting any minor amendments to the permit?
	□ Yes ⊠ No
	If yes , list and discuss the requested changes.
	Click to enter text.
c.	Is the facility requesting any minor modifications to the permit?
	□ Yes ⊠ No
	If yes , list and discuss the requested changes.
	Click to enter text.

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, <u>Justin Wheeler</u>, 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): 04/25/2024 05/16/2024
- c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** 12

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:** N/A

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)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	6.48	4.8	4.77	6.81
CBOD (5-day)	ND	6.08	4.35	4.44
Chemical oxygen demand	30.6	49.7	77.2	39.1
Total organic carbon	4.41	4.43	5.48	4.49
Dissolved oxygen	3.05	3.94	3.76	6.57
Ammonia nitrogen	ND	0.036	0.034	0.024
Total suspended solids	53.3	62.7	74.8	65.6
Nitrate nitrogen	9.93	0.26	ND	0.208
Total organic nitrogen	1.92	0.653	2.68	2.67
Total phosphorus	0.751	0.332	1.05	0.762
Oil and grease	ND	ND	ND	1.3
Total residual chlorine	0.018	0.007	0.018	0.000
Total dissolved solids	494	568	548	536
Sulfate	277	277	299	235
Chloride	304	62.8	59.8	61.8
Fluoride	6.70	1.45	1.38	1.45
Total alkalinity (mg/L as CaCO3)	113	112	85.1	116
Temperature (°F)	64	66	67	68
pH (standard units)	<i>7</i> ⋅5	7.73	8.21	7.31

Table 2 for Outfall No.: <u>001</u> Samples are (check one):

Zinc, total

Sample 1 Sample 2 Sample 3 Sample 4 **Pollutant** $MAL (\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ Aluminum, total 862 767 424 598 2.5 ND Antimony, total ND ND ND 5 Arsenic, total 4.71 5.97 5.13 4.56 0.5 Barium, total 181 163 196 149 3 Beryllium, total ND ND ND ND 0.5 ND Cadmium, total ND ND ND 1 Chromium, total 2.76 2.83 2.90 3 3.53 Chromium, hexavalent ND ND ND ND 3 Chromium, trivalent ND ND ND ND N/A 2 Copper, total 6.57 5.98 7.31 17.5 Cyanide, available ND ND ND 7.73 2/10 1.14 Lead, total 1.92 1.10 0.850 0.5 Mercury, total 0.0191 0.0087 0.005/0.0005 0.0197 0.0214 Nickel, total 1.32 2.33 1.31 0.963 2 Selenium, total 2.16 2.01 5 3.52 2.30 ND ND ND ND Silver, total 0.5 ND Thallium, total ND ND ND 0.5

47.7

28.0

22.4

Grabs

Composites

 \boxtimes

26.4

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): Com	posites \square	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	, , ,			., 0,	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

 \boldsymbol{b} .

c.

	•		
wa	ıstewater fro	m the ty	strial/commercial facility which currently or proposes to directly dispose of operations listed below or a domestic facility which currently or proposes from the types of industrial/commercial operations listed below?
	Yes	⊠ N	0
			ext to each of the following criteria which apply and provide the appropriate 4 below (check all that apply).
	Manufact	urers aı	nd formulators of tributyltin or related compounds.
	Painting of	of ships	, boats and marine structures.
	Ship and	boat bu	ilding and repairing.
	Ship and	boat cle	aning, salvage, wrecking and scaling.
	Operation	and m	aintenance of marine cargo handling facilities and marinas.
	Facilities	engage	d in wood preserving.
	•		rial/commercial facility for which tributyltin is known to be present, or for which on to believe that tributyltin may be present in the effluent.
En	nterococci ((disch	arge to saltwater)
i.			rges/proposes to discharge directly into saltwater receiving waters and ia are expected to be present in the discharge based on facility processes.
	□ Yes	\boxtimes	No
ii.	Domestic w	astewa	ter is/will be discharged.
	□ Yes	\boxtimes	No
If y	yes to eithe	r quest	ion, provide the appropriate testing results in Table 4 below.
E.	coli (disch	arge t	o freshwater)
i.			rges/proposes to discharge directly into freshwater receiving waters and <i>E. coli</i> ed to be present in the discharge based on facility processes.
	□ Yes	\square	No

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

Table 4 for Outfall No.:	Fable	e 4 for	Outfall	No.:	
--------------------------	--------------	---------	---------	------	--

Yes

Samples are (check one): \Box	Composites	\Box 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

ii. Domestic wastewater is/will be discharged.

No

 \boxtimes

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

Heptachlor

[Lindane]
Hexachlorophene

Methoxychlor

Parathion (ethyl)

2,4,5-TP [Silvex]

Toxaphene

Malathion

Mirex

Heptachlor epoxide

Hexachlorocyclohexane (alpha)

Hexachlorocyclohexane (beta)

Hexachlorocyclohexane (gamma)

Table 5 for Outfall No.:

Samples are (check one): **Composites** Grabs Sample 4 Sample 1 Sample 2 Sample 3 **Pollutant** MAL (μg/L)* $(\mu g/L)^*$ $(\mu g/L)^*$ $(\mu g/L)^*$ $(\mu g/L)^*$ 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 0.5/0.1Dicofol [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

0.01

0.01

0.05

0.05

0.05

10

0.1

2.0

0.02

0.1

0.3

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.: <u>001</u>

Samples are (check one): \square Composites \square 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)			1.24	ND	ND	0.217	_
Sulfide (as S)		\boxtimes					_
Sulfite (as SO ₃)							_
Surfactants							_
Boron, total							20
Cobalt, total							0.3
Iron, total			0.565	0.945	0.774	0.672	7
Magnesium, total			35.0	41.6	37.7	31.6	20
Manganese, total			0.0178	0.0342	0.0270	0.0183	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

Indu	strial 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.:	enter text.	Acid C	ompounds	
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): \Box Composites \Box 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	Sample 2	Sample 3	Sample 4	MAL
1 onutant	(μg/L)*	(μg/L)*	(μg/L)*	(μg/L)*	(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.: : 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: N/A

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 is required for external outfalls, as directed below. (Instructions, Pages 60-61)

a.			oound(s) are manufactured or used at the facility and their presence at the facility (check all that apply).	provide a brief description	of
		2,4,5-trichloro	phenoxy acetic acid (2,4,5-T)	CASRN 93-76-5	
		2-(2,4,5-trichlo	prophenoxy) propanoic acid (Silvex, 2,4,5-TP)	CASRN 93-72-1	
		2-(2,4,5-trichlo	prophenoxy) ethyl 2,2-dichloropropionate (Erbon)	CASRN 136-25-4	
		o,o-dimethyl o	o-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel)	CASRN 299-84-3	
		2,4,5-trichloro	phenol (TCP)	CASRN 95-95-4	
		hexachlorophe	ne (HCP)	CASRN 70-30-4	
	\boxtimes	None of the ab	ove		
	Des	cription:	enter text.		
b.	tetra		r anyone at the facility know or have any reason to be p-dioxin (TCDD) or any congeners of TCDD may be p ge?		
		Yes	No		
	Desc	eription:	enter text		

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

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	on Slud Equiva (pp	city MAI
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
PCB 169 Total	0.03					500
Total TABLE 13 (HAZ Complete Table 13 a. Are there any part of the second sec	ZARDOUS So is required for collutants listed No cants listed in It	r all external ou	(pages 55-62) al Report 1.0 wl	believed prese	nt in the disc	ge 61) Pharge?
Total TABLE 13 (HAZ Complete Table 13 a. Are there any part of the pollute discharge and haz	ZARDOUS Solis required for collutants listed No cants listed in It have not been and the listed in It have not been also been and the listed in It have not been and the listed in It have not	r all external ou in the instructions tem 1.c. of Technic nalytically quantif	(pages 55-62) al Report 1.0 wl ed elsewhere in	believed prese	nt in the disc	ge 61) Pharge?
Total TABLE 13 (HAZ Complete Table 13 a. Are there any party and yes Date of the there polluted discharge and here.	ARDOUS Solis required for collutants listed No cants listed in It have not been and No cants a or b, compute the	r all external ou in the instructions tem 1.c. of Technic nalytically quantif	(pages 55-62) al Report 1.0 wl ed elsewhere in	believed prese	nt in the disc	ge 61) Pharge?
Total TABLE 13 (HAZ Complete Table 13 a. Are there any position of the second	ZARDOUS Solis required for collutants listed ✓ No cants listed in It have not been and No cans a or b, compute No.: k one): □	r all external ou in the instructions em 1.c. of Technic nalytically quantif	al Report 1.0 wled elsewhere in structed.	believed prese	nt in the disc	ge 61) Pharge?
Total TABLE 13 (HAZ Complete Table 13 a. Are there any paragraphs Yes b. Are there pollute discharge and had be a second for the second f	ZARDOUS Solis required for collutants listed ✓ No cants listed in It have not been and No cans a or b, compute No.: k one): □	r all external ou in the instructions tem 1.c. of Technic halytically quantif blete Table 13 as in Composites Sample	al Report 1.0 wheed elsewhere in structed. Grabs Sample 2	pelieved presentich are believed this application	nt in the disc	ge 61) Tharge? The
Total TABLE 13 (HAZ Complete Table 13 a. Are there any paragraphs Yes b. Are there pollute discharge and had be a second for the second f	ZARDOUS Solis required for collutants listed ✓ No cants listed in It have not been and No cans a or b, compute No.: k one): □	r all external ou in the instructions tem 1.c. of Technic halytically quantif blete Table 13 as in Composites Sample	al Report 1.0 wheed elsewhere in structed. Grabs Sample 2	pelieved presentich are believed this application	nt in the disc	ge 61) Tharge? The

WORKSHEET 4.0 RECEIVING WATERS

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

1.	DOMESTIC	DRINKING V	WATER SUPPLY	(Instructions.	Page 8	81
1.	DOMESTIC		WAIER SUPPLY	amstructions.	rage	¢

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:
	i. The legal name of the owner of the drinking water supply intake:
	v. The distance and direction from the outfall to the drinking water supply intake:
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.
2.	DISCHARGE INTO TIDALLY INFLUENCED WATERS (Instructions, Page 81)
If t	he discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.
a.	Width of the receiving water at the outfall:
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:
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:
3.	CLASSIFIED SEGMENT (Instructions, Page 81)
The	e discharge is/will be directly into (or within 300 feet of) a classified segment.
	Yes 🗵 No
If y	ves, stop here. It is not necessary to complete Items 4 and 5 of this worksheet or Worksheet 4.1.
If r	o, complete Items 4 and 5 and Worksheet 4.1 may be required.

4. DESCRIPTION OF IMMEDIATE RECEIVING WATERS (Instructions, Page 82)

a.	Name	e of the immediate receiving waters: Unnamed Tribt	itary	OI ROCK Creek
b.	Checl	k the appropriate description of the immediate recei	ving v	waters:
		 Lake or Pond Surface area (acres): Average depth of the entire water body (feet): Average depth of water body within a 500-foot radius of the discharge point (feet): 		Man-Made Channel or Ditch Stream or Creek Freshwater Swamp or Marsh Tidal Stream, Bayou, or Marsh Open Bay Other, specify:
		Made Channel or Ditch or Stream or Creek we below:	ere sel	ected above, provide responses to Items
c.		existing discharges, check the description below the ischarge.	hat be	est characterizes the area upstream of
		new discharges , check the description below that b ischarge.	est cl	naracterizes the area downstream of
		Intermittent (dry for at least one week during most Intermittent with Perennial Pools (enduring pools cuses) Perennial (normally flowing)	•	
	Checl	k the source(s) of the information used to characteriastream (new discharge):	ze the	e area upstream (existing discharge) or
		USGS flow records personal observation historical observation by adjacent landowner(s) other, specify:		
d.		he names of all perennial streams that join the receinscharge point: <u>Rock Creek</u>	ving v	water within three miles downstream of
e.		receiving water characteristics change within three marl or man-made dams, ponds, reservoirs, etc.).	niles d	lownstream of the discharge (e.g.,
		Yes No No s, describe how:		
f.	flowi	ral observations of the water body during normal dr ng downstream of discharge point.	y wea	ther conditions: <u>Water is consistently</u>
	Date	and time of observation: <u>05/16/2024 2:41 PM</u>		
g.	The w	water body was influenced by stormwater runoff dur	ing ol	oservations.
		Yes No		
	If yes	s, describe how:		

5. GENERAL CHARACTERISTICS OF WATER BODY (Instructions, Page 82)

a.		e receiving water upstream of t e following (check all that appl		isting discharge or proposed disc	harge	site influenced by any
		oil field activities	\boxtimes	urban runoff		
		agricultural runoff		septic tanks		
		upstream discharges		other, specify:		
b.	Uses	of water body observed or evi	dence	of such uses (check all that apply):	
	\boxtimes	livestock watering		fishing		picnic/park activities
		non-contact recreation		industrial water supply		other, specify:
		domestic water supply		irrigation withdrawal		enter text.
		contact recreation		navigation		
c.		eription which best describes the one):	ie aes	thetics of the receiving water and	the su	ırrounding area (check
		Wilderness: outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional				area: water clarity
		Natural Area: trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored				
		Common Setting: not offer	ısive,	developed but uncluttered; water	may b	e colored or turbid
		Offensive: stream does not of water discolored	enhan	ce aesthetics; cluttered; highly de	velop	ed; dumping areas;

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.

1. APPLICABILITY (Instructions, Page 90)

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.

2. STORMWATER OUTFALL COVERAGE (Instructions, Page 91)

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	Authorized Under MSGP	Authorized Under Individual Permit
		п
		п
		п

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.

3. SITE MAP (Instructions, Page 91)

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 the above information was provided on the facility site map(s).
Attachment: N/A

1. FACILITY/SITE INFORMATION (Instructions, Pages 91-92)

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	Total Area Drained
Outian	(include units)	(include units)

b.	Provide the fo	llowing local area rainfall information and t	he source of the information.
	Wettest mont	h: Click to enter text.	

	Average rainfall for wettest month (total inches):
	25-year, 24-hour rainfall (inches): Source:
с.	Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. Attachment: $\underline{N/A}$
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: N/A
e.	Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility:
5.	LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 92)
En	Tective July 1, 2008, all laboratory tests performed must meet the requirements of 30 TAC Chapter 25, vironmental Testing Laboratory Accreditation and Certification with the following general emptions:
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
	vi. performing pro bono work for a governmental agency or charitable organization.
b.	The laboratory is accredited under federal law.
с.	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.
	view <i>30 TAC Chapter 25</i> for specific requirements. The following certification statement shall be signed d submitted with every application. See Instructions, Page 32, for a list of approved signatories.
I, of	, certify that all laboratory tests submitted with this application meet the requirements 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.
(Si	gnature)
6.	POLLUTANT ANALYSIS (Instructions, Pages 92-93)
0.	1 office in the final deduction, 1 ages 42 40)

- 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):
- Check the box to confirm all samples were collected no more than 12 months prior to the date of b. □ application submittal.
- c. Complete Table 17 as directed on page 92 of the Instructions.

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

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: N/A

^{**} Flow-weighted composite sample

7. STORM EVENT DATA (Instructions, Page 94)

data submitted:
Date of storm event:
Duration of storm event (minutes):
Total rainfall during storm event (inches):
Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours):
Maximum flow rate during rain event (gallons/minute):
Total stormwater flow from rain event (gallons):
Provide a description of the method of flow measurement or estimate:

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

ATTACHMENTS

ATTACHMENT 1FEE PAYMENT DOCUMENTATION



Blair Shackford <roamenv@gmail.com>

FW: TCEQ ePay Receipt for 582EA000614249

1 message

Justin Wheeler < justinwheeler@iacx.com>

Fri, Jun 14, 2024 at 3:45 PM

To: Blair Shackford <roamenv@gmail.com>, Scott Baber <scott@baberenvironmental.com>

Cc: Sheila Baber < Sheila@baberenvironmental.com>

Thank you,

Justin Wheeler, CHMM, CSP
Director of Environmental, Health and Safety
IACX Management
5001 LBJ Freeway, Suite 300
Dallas, Texas 75244
(972) 679-2147 – cell phone
justinwheeler@iacx.com

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and/or privileged. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error and delete it. Thank you.

----Original Message-----

From: steers@tceq.texas.gov <steers@tceq.texas.gov>

Sent: Friday, June 14, 2024 3:45 PM

To: Justin Wheeler <justinwheeler@iacx.com> Subject: TCEQ ePay Receipt for 582EA000614249

This is an automated message from the TCEQ ePay system. Please do not reply.

Trace Number: 582EA000614249 Date: 06/14/2024 03:44 PM

Payment Method: CC - Authorization 0000014411 TCEQ Amount: \$350.00 Texas.gov Price: \$358.13*

* 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.

Actor: JUSTIN WHEELER Email: justinwheeler@iacx.com

Payment Contact: JUSTIN WHEELER

Phone: 972-960-3210

Company: IACX ROCK CREEK LLC

Address: 5001 LBJ FREEWAY SUITE 300, DALLAS, TX 75244

Fees Paid:

Fee Description AR Number Amount

WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT \$300.00

30 TAC 305.53B WQ NOTIFICATION FEE \$50.00

TCEQ Amount: \$350.00

===

Voucher: 709608

Trace Number: 582EA000614249

Date: 06/14/2024 03:44 PM

Payment Method: CC - Authorization 0000014411 Voucher Amount: \$300.00 Fee Paid: WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT RN Number: RN100216613 Site Name: ROCK CREEK GAS PLANT Site Location: 1000 W 10TH ST BORGER TX 79007 2702 CN Number: CN605745843 Customer Name: IACX ROCK CREEK LLC Customer Address: 5001 LBJ FREEWAY SUITE 300, DALLAS, TX 75244 Program Area ID:

WQ0005355000

Voucher: 709609

Trace Number: 582EA000614249 Date: 06/14/2024 03:44 PM

Payment Method: CC - Authorization 0000014411 Voucher Amount: \$50.00 Fee Paid: 30 TAC 305.53B WQ

NOTIFICATION FEE

===

To print out a copy of the receipt and vouchers for this transaction either click on or copy and paste the following url into your browser:

https://www3.tceq.texas.gov/epay/index.cfm?fuseaction=cor.search&trace_num_txt=582EA000614249.

This e-mail transmission and any attachments are believed to have been sent free of any virus or other defect that might affect any computer system into which it is received and opened. It is, however, the recipient's responsibility to ensure that the e-mail transmission and any attachments are virus free, and the sender accepts no responsibility for any damage that may in any way arise from their use.

ATTACHMENT 2CORE DATA FORM



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.)

Renewal (Core Data Form should be submitted with the renewal form)				O	ther				
2. Customer F	Reference Number (if issue		Follow this link to searc						
CN 6057458	Central Registry		RN 1	100216613					
ECTION	N II: Custome	r Inform	<u>nation</u>						
4. General Cu	stomer Information	5. Effective	Effective Date for Customer Information Updates (mm/dd/yyyy)						
New Custon	mer egal Name (Verifiable with the	Update to Custor			_	ge in Regulated Ent	ity Owne	ership	
	r Name submitted here me c Comptroller of Bublic As		utomatically base	ed on w	hat is cu	ırrent and active	with th	ne Texas Secr	etary of State
lous) or lexa:	s Comptroller of Public Ac	counts (CPA).							
6. Customer I	Legal Name (If an individual,	print last name fir	st: eg: Doe, John)		If new Customer, enter previous Customer below:				
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits)						9. Federal Tax II	Fodoral Tay ID 10 DUNG Normalian		Number /:f
7. 1A 3U3/CP/	A Lining Number	o. IA State	8. TX State Tax ID (11 digits)			(9 digits)		10. DUNS Number (if applicable)	
11. Type of C	ustomer: Corp	oration		Г	☐ Individ	ual	Partne	ership: \square Gen	eral Limited
Government: City County Federal Local State Other						oprietorship	Otl		
12. Number of Employees					13. Independently Owned and Operated?				
0-20 21-100 101-250 251-500 501 and higher					⊠ Yes □ No				
14. Customer	Role (Proposed or Actual) –	as it relates to the	Regulated Entity list	ted on th	is form. I	Please check one of	the follo	wing	
Owner	☐ Operator	□Ow	ner & Operator						
Occupationa	<u> </u>	<u> </u>	/CP/BSA Applicant			☐ Other:			
15. Mailing									
Address:									
Addiess.	City		State		ZIP			ZIP + 4	
16. Country N	 Mailing Information (if outs	ide USA)		17. E-	Mail Ac	Idress (if applicable	e)		

TCEQ-10400 (11/22) Page 1 of 3

SECTION III:	<u>Regul</u>	ated Ent	ity Inform	<u>nation</u>				
21. General Regulated En	ntity Inform	nation (If 'New Reg	gulated Entity" is select	ted, a new pe	rmit applica	ition is also requ	ired.)	
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information								
The Regulated Entity Nar as Inc, LP, or LLC).	me submitt	ed may be upda	ted, in order to mee	et TCEQ Cor	e Data Stai	ndards (remov	al of organizatio	onal endings such
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
23. Street Address of the Regulated Entity:								
(No PO Boxes)	City		State		ZIP		ZIP + 4	
24. County					I	1	<u>'</u>	
L		If no Stree	et Address is provid	ed, fields 2	5-28 are re	quired.		
25. Description to								
Physical Location:								
26. Nearest City	l					State	Ne	earest ZIP Code
Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).								
27. Latitude (N) In Decimal:			28. Lo	ongitude (V	V) In Decimal:			
Degrees	Minutes		Seconds	Degre	es	Minute	es	Seconds
29. Primary SIC Code	20). Secondary SIC	Codo				2 Sacandary NA	ICS Codo
(4 digits) (4 digits)		31. Primary NAICS Cod (5 or 6 digits)		de 32. Secondary NAICS Code (5 or 6 digits)				
33. What is the Primary E	Business of	this entity? (Do	not repeat the SIC or	NAICS descri	ption.)			
34. Mailing								
Address:								
Audress.	City		State		ZIP		ZIP + 4	
35. E-Mail Address:		-1						
36. Telephone Number			37. Extension or 0	Code	38. F	ax Number (if	applicable)	
() -					() -		

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.

TCEQ-10400 (11/22) Page 2 of 3

☐ Municipal Solid Waste ☐ Sludge ☐ Voluntary Cleanup SECTION IV: F 40. Name: Scott Baber 42. Telephone Number	New Source Review Air Storm Water Wastewater	☐ OSSF ☐ Title V Air ☐ Wastewater Ag	zriculture	Petroleu Tires Water R	om Storage Tank	PWS Used Oil Other:		
Voluntary Cleanup SECTION IV: F 40. Name: Scott Baber	⊠ Wastewater		zriculture		ights			
SECTION IV: F 40. Name: Scott Baber		☐ Wastewater Ag	griculture	☐ Water R	ights	Other:		
40. Name: Scott Baber	Preparer Inf	<u> </u>						
42. Telephone Number		ormation	41. Title	: Enviror	nmental Complianc	te Manager		
	42. Telephone Number 43. Ext./Code 44. Fax Nu				45. E-Mail Address			
405-659-8115		() -	scott@l	scott@baberenvironmental.com				
6. By my signature below, I ce a submit this form on behalf of	rtify, to the best of my kno	wledge, that the infor				e, and that I have signature authority entified in field 39.		
Company: IACX F	Rock Creek, LLC		Job Title	: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rectar or	FEHS		
Name (In Print):	Justin W.	heer			Phone:	6/17/24		
Signature:	(1x.1	1			Date:	6/17/24		

TCEQ-10400 (11/22)

ATTACHMENT 3 PUBLIC INVOLVEMENT PLAN (PIP) FORM (TCEQ FORM 20960)

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.

Renewal and modification of permit not expected to have significant impact on quality or quantity of water discharged.

TCEQ-20960 (02-09-2023)

Section 3. Application Information

Type of Application (check all that apply):

Air Initial Federal Amendment Standard Permit Title V

Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire

Radioactive Material Licensing Underground Injection Control

Water Quality

Texas Pollutant Discharge Elimination System (TPDES)

Texas Land Application Permit (TLAP)

State Only Concentrated Animal Feeding Operation (CAFO)

Water Treatment Plant Residuals Disposal Permit

Class B Biosolids Land Application Permit

Domestic Septage Land Application Registration

Water Rights New Permit

New Appropriation of Water

New or existing reservoir

Amendment to an Existing Water Right

Add a New Appropriation of Water

Add a New or Existing Reservoir

Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

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

Section 5. Community and Demographic Information

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

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

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

Section 6. Planned Public Outreach Activities

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

Yes No

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

Yes No

If Yes, please describe.

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

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

Yes No

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

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

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

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

Yes No

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

Yes No

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

TCEQ Regional Office

TCEQ Central Office

Public Place (specify)

Section 7. Voluntary Submittal

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

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

Yes No

What types of notice will be provided?

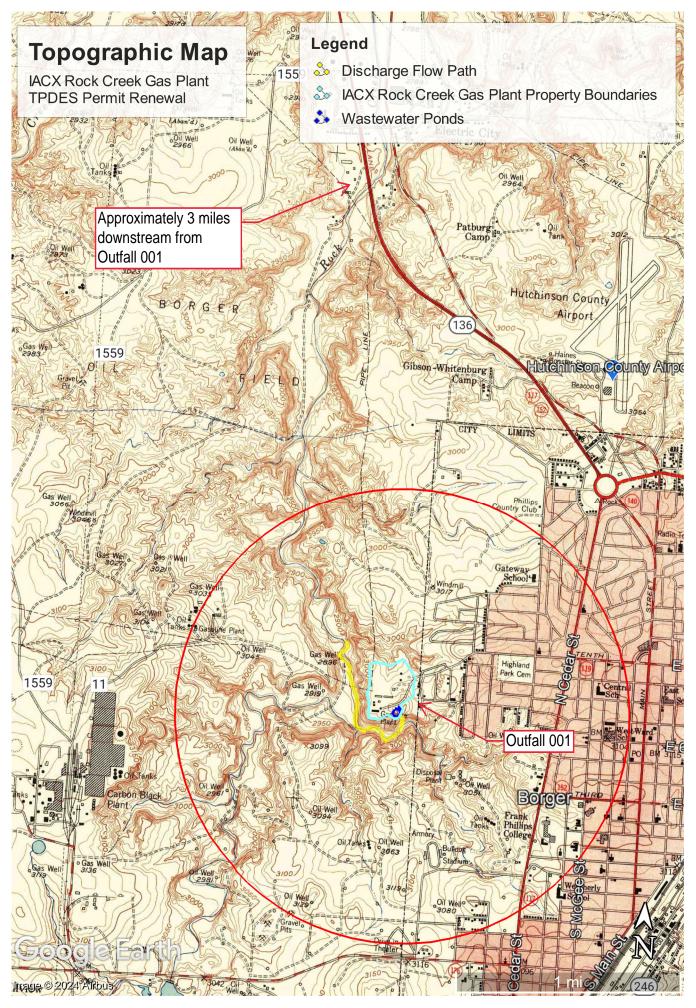
Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

ATTACHMENT 4 USGS TOPOGRAPHIC MAP



ATTACHMENT 5AFFECTED LANDOWNER MAP



ATTACHMENT 6LANDOWNERS LIST

IACX ROCK CREEK, LLC TPDES PERMIT NO. WQ0005355000

List of Affected Landowners

1 TEXAS BIG CREEK RANCH LTD

PO BOX 3344

BORGER TX 79008-3344

ATTACHMENT 7ORIGINAL PHOTOGRAPHS

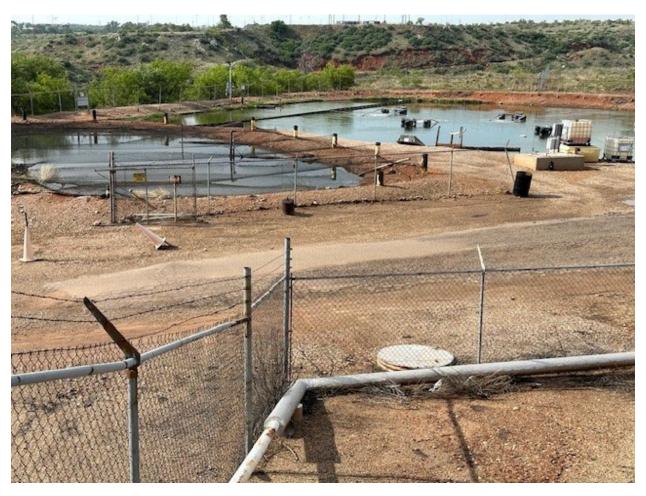


Photo 1: Ponds Overview



Photo 2: New Reverse Osmosis System

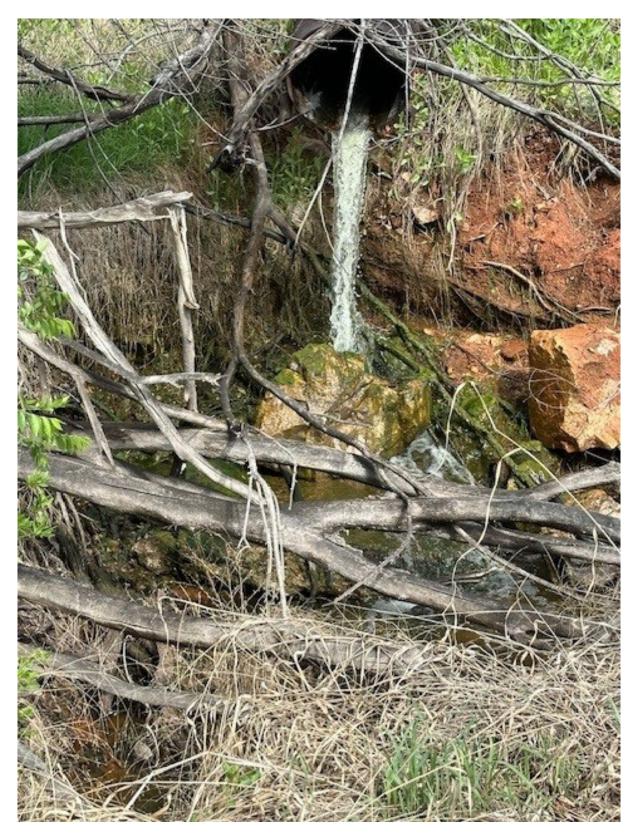


Photo 3: Outfall 001

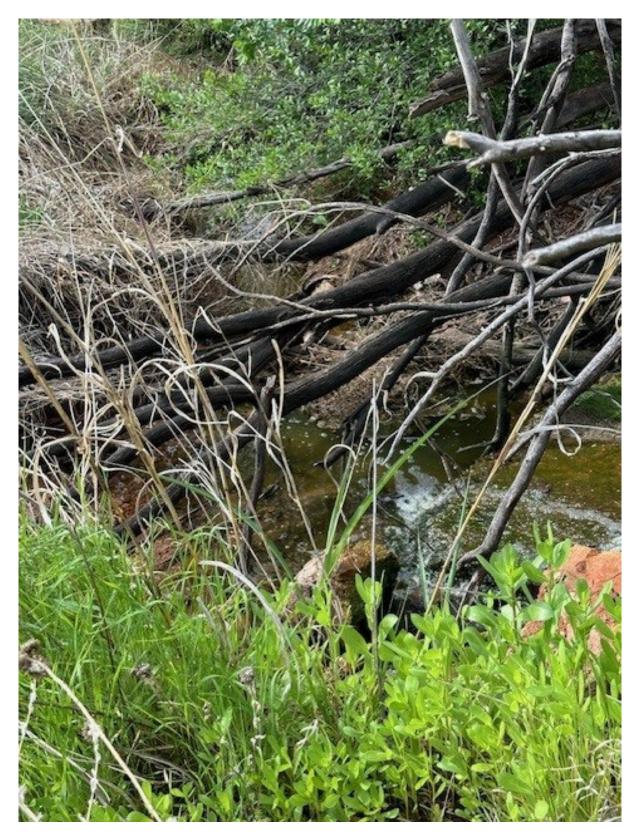


Photo 4: Downstream from Outfall 001



Photo 5: Upstream from Outfall 001



ATTACHMENT 8 SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF) AND ATTACHMENTS

(INCLUDES DUPLICATED PAGES FROM ADMIN REPORT)

TEXAS COMMISSION ON ENVIRONMENTAL OUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:						
Application type:RenewalMajor Am	endmentNew					
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 36)						

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

- 1. Permittee Name: <u>IACX Rock Creek, LLC</u>
- 2. Permit No.: WQ0005355000 EPA ID No.: TX0009172
- 3. Address of the project (location description that includes street/highway, city/vicinity, and county): 1000 West 10th Street Borger, TX 79007
- 4. Provide the name, address, phone and fax number, and email address of an individual that can be contacted to answer specific questions about the property.

Full Name (First and Last): Justin Wheeler

Organization Name: IACX Rock Creek, LLC Mailing Address: 5001 LBJ Freeway, Suite 300

City: Dallas State: Texas Zip Code: 75244

Phone No: (972) 960-3217 Fax No: N/A Email: justinwheeler@iacx.com

- 5. List the county in which the facility is located: Hutchinson
- 6. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property: N/A
- 7. 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: <u>Wastewater and stormwater discharge from Outfall 001 on the southeast side of</u> the facility to an unnamed waterway, which flows into Rock Creek and continues north.

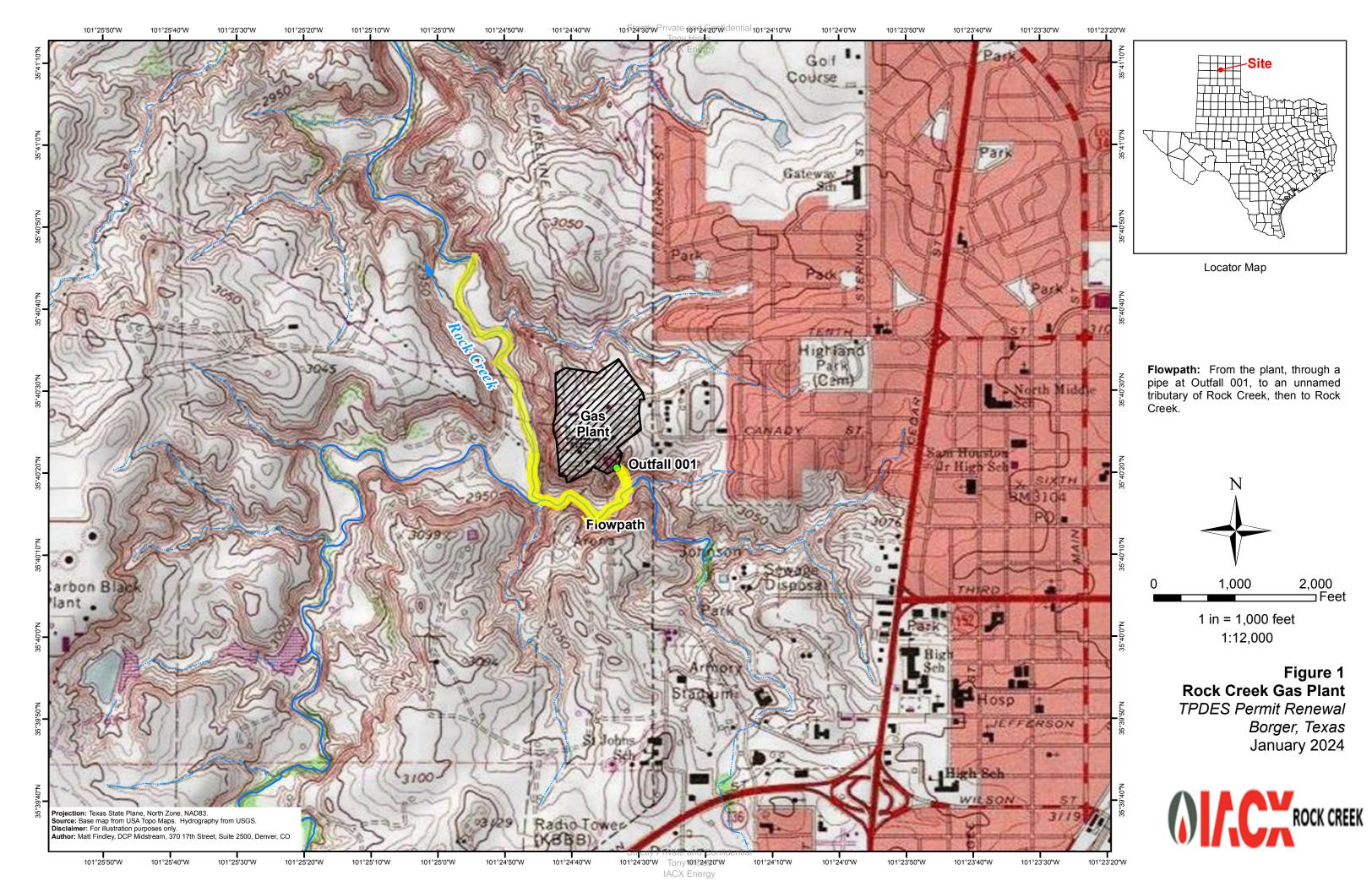
- 8. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report.) Attachment: 8
- 9. Provide original photographs of any structures 50 years or older on the property. Attachment: N/A

10. Does your project involve any of the following? Check all that apply.	
☐ Proposed access roads, utility lines, construction easements	
\square Visual effects that could damage or detract from a historic property's integrity	
\square Vibration effects during construction or as a result of project design	
\square Additional phases of development that are planned for the future	
Sealing caves, fractures, sinkholes, other karst features	
☐ Disturbance of vegetation or wetlands	

- 11. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): No construction is proposed for this amendment/renewal.
- 12. Describe existing disturbances, vegetation, and land use: <u>Land surrounding outfall is channeled by</u> water flow. Downstream from outfall is active ranching land.

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

- 13. List construction dates of all buildings and structures on the property: <u>Current buildings on-site</u> were built starting in 1976.
- 14. Provide a brief history of the property, and name of the architect/builder, if known: Phillips constructed and operated various processing assets at the site of the current Rock Creek Plant beginning in the late 1920's. Beginning in 1974, Phillips started work on the new plant. The Turbine spun-up in late 1976. This what we call the Rock Creek Gas Plant. Phillips, GPM, Duke, DEFS, DCP an IACX have owned and operated the plant through a continuous chain of title for over forty years.



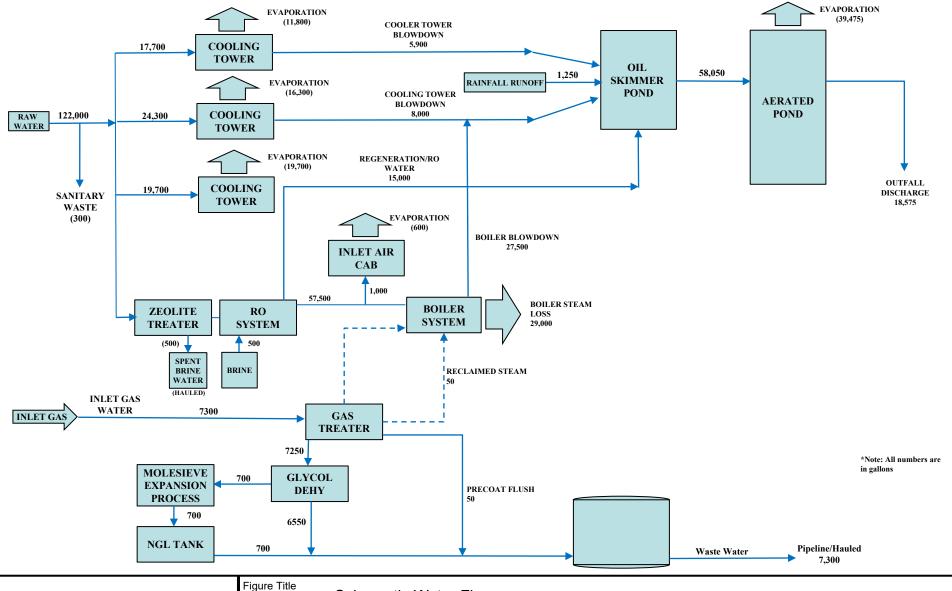




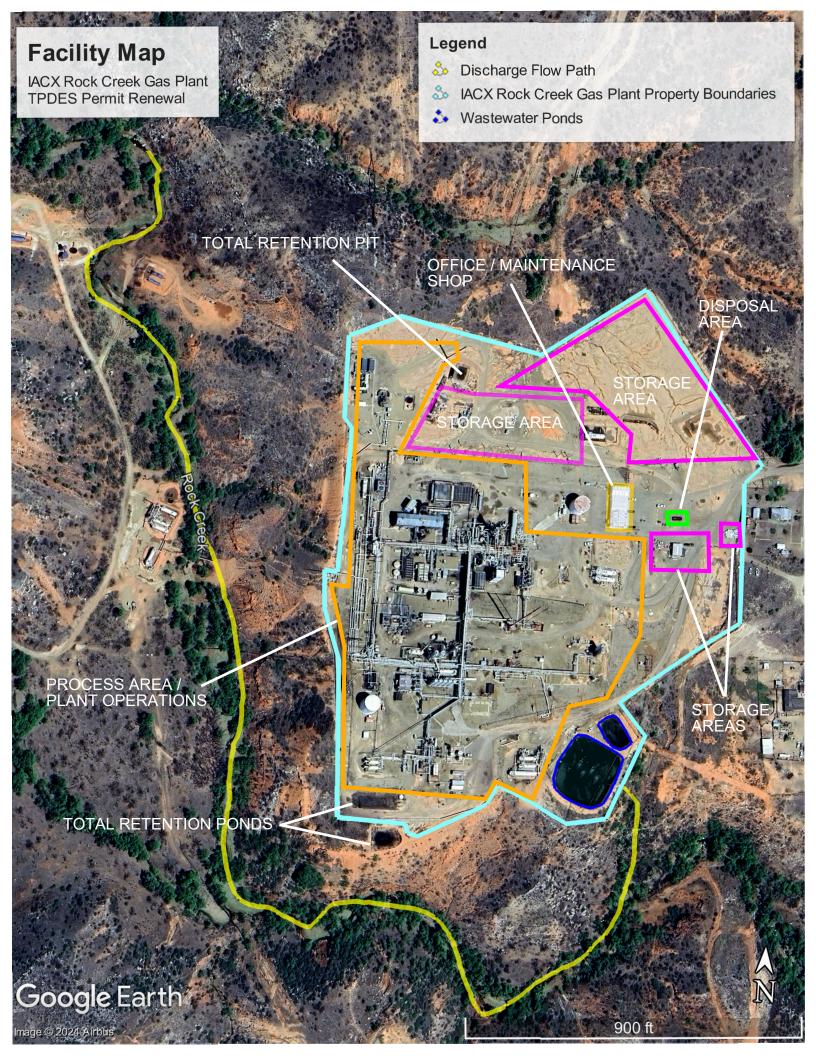
Figure Title Schematic Water Flow

Document Title TPDES Permit Renewal

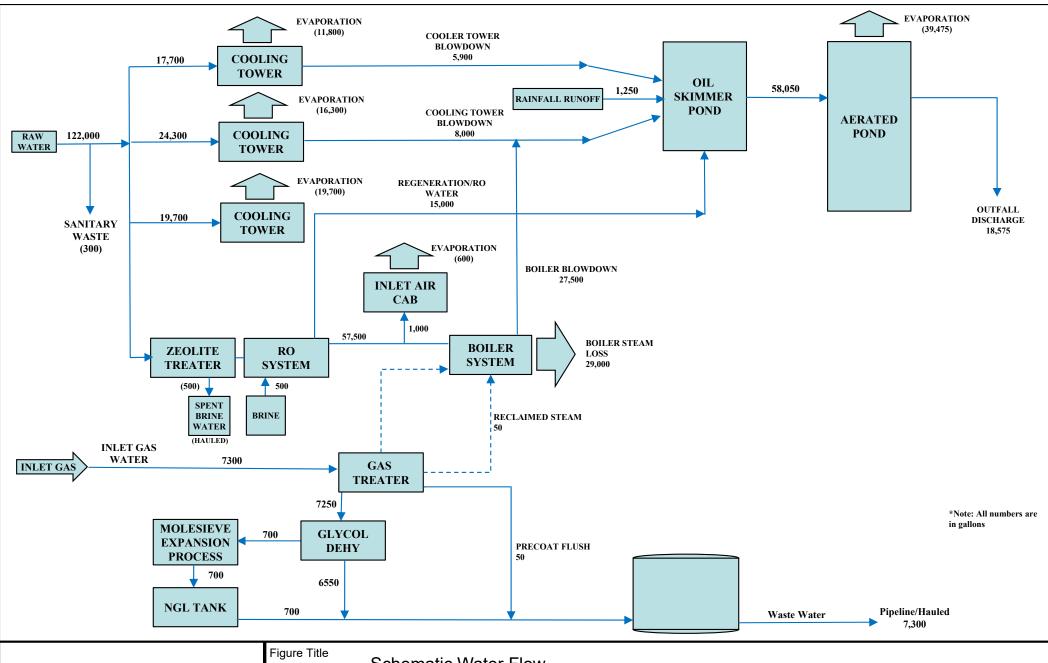
Client IACX Rock Creek Gas Plant

Location Hutchison County, Texas

ATTACHMENT 9FACILITY MAP



ATTACHMENT 10 FLOW SCHEMATIC WITH WATER BALANCE





Schematic Water Flow

Document Title **TPDES Permit Renewal**

Client **IACX Rock Creek Gas Plant**

Hutchison County, Texas Location

ATTACHMENT 11 SAFETY DATA SHEETS (SDS)



SAFETY DATA SHEET



1. Identification

Product identifier BL122

Other means of identification

Product code BL122

Recommended use Boiler Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreat, Inc.Address5640 Cox Road

Glen Allen, VA 23060

Telephone United States 800-648-4579 Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1C

Serious eye damage/eye irritation Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious

eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful

to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear

respiratory 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: BL122 SDS US

BL122 Version #: 05 Revision date: 01-22-2024 Issue date: 06-18-2021

Supplemental information

9% of the mixture consists of component(s) of unknown acute dermal toxicity. 9% of the mixture consists of component(s) of unknown acute inhalation toxicity. 9% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 9% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Ingestion

Chemical name	Common name and synonyms	CAS number	%
Sodium bisulfite		7631-90-5	15 - 40

Other components below reportable levels

4. First-aid measures

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

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. If experiencing respiratory symptoms: Call a

poison center or doctor/physician.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. 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.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

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

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

blindness could result. Difficulty in breathing. 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 under observation.

Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information**

protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

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.

Material name: BL122 SDS US

Methods and materials for containment and cleaning up

Prevent product from entering drains.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values (TLV)

Components	Туре	Value	
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	
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US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL) Components Type Value Sodium bisulfite (CAS TWA 5 mg/m3

Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

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. General ventilation normally adequate. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

•	• •
Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Pink
Odor	Strong

Material name: BL122 SDS US

BL122 Version #: 05 Revision date: 01-22-2024 Issue date: 06-18-2021

Odor threshold Not available. pH 4.2 @ 100%

Melting point/freezing point $30.20 \, ^{\circ}\text{F} \, (-1.00 \, ^{\circ}\text{C})$

Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

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 Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 0 - < 200 cps</th>

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 10.32 Specific gravity 1.24 @ 20C VOC 0 %w/w

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decompositionNo hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

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. Difficulty in breathing.

Information on toxicological effects

Acute toxicity Not known.

Material name: BL122 SDS US

Components **Species Test Results**

Sodium bisulfite (CAS 7631-90-5)

Acute Oral

LD50 Rat 2 g/kg

Causes severe skin burns and eye damage. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory sensitization

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium bisulfite (CAS 7631-90-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	Harmful to	o aquatic life with long lasting effects.	
Product		Species	Test Results
BL122			
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	390.4 mg/l, 48 hours
		Daphnia magna	354 mg/l, 48 hours
		Opossum shrimp order (Mysida)	> 1000 mg/l, 24 hours
			> 1000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hours
		Inland silverside (Menidia beryllina)	> 1000 mg/l, 24 hours
			> 1000 mg/l, 96 hours
		Sheepshead minnow (Cyprinodon variegatus)	100 mg/l, 96 hours
Acute			
Fish	LC50	Oncorhynchus mykiss	1875 mg/l, 96 h
ersistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
ioaccumulative potential	No data available.		
lobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation		

Material name: BL122 SDS US

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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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

UN2693 **UN** number

UN proper shipping name

Bisulfites, aqueous solutions, n.o.s. (SODIUM BISULFITE)

Transport hazard class(es)

8 Class Subsidiary risk Label(s) 8 **Packing group** Ш **Environmental hazards**

> Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154 203 Packaging non bulk Packaging bulk 241

IATA

UN number UN2693

UN proper shipping name

Transport hazard class(es)

Bisulfites, aqueous solutions, n.o.s. (SODIUM BISULFITE)

Class 8 Subsidiary risk 8 Label(s) Ш Packing group **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN2693

UN proper shipping name Bisulfites, aqueous solutions, n.o.s. (SODIUM BISULFITE)

Transport hazard class(es)

Class 8 Subsidiary risk Label(s) 8 Ш Packing group

Environmental hazards

Marine pollutant No.

EmS Not assigned.

Transport in bulk according to Annex II of MARPOL 73/78 and

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

the IBC Code

Material name: BL122 SDS US

BL122 Version #: 05 Revision date: 01-22-2024 Issue date: 06-18-2021



IATA; IMDG



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)

Sodium bisulfite (CAS 7631-90-5)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Skin corrosion or irritation

categories Serious eye damage or eye irritation

Yes

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

Not regulated.

(SDWA)

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.

Material name: BL122 SDS US

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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	Yes

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) No Europe Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland, VA Eldridge, IA Nederland, TX Fontana, CA



Compliance Information: Food Regulations

21 CFR 173.310

16. Other information, including date of preparation or last revision

06-18-2021 Issue date 01-22-2024 **Revision date**

Version # 04

Health: 2 **HMIS®** ratings Flammability: 0

Physical hazard: 0 Personal protection: X

Disclaimer ChemTreat. Inc. cannot anticipate all conditions under which this information and its product, or

> the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Hazard(s) identification: Hazard statement **Revision information**

Regulatory information: Compliance Information: Kosher Location

BL122 Version #: 05 Revision date: 01-22-2024 Issue date: 06-18-2021

^{*}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).

Other information

Material name: BL122 sps us

ChemTreat*

SAFETY DATA SHEET



1. Identification

Product identifier BL1304

Other means of identification

Product code BL1304

Recommended use Boiler Water Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Avoid release to the environment.

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 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 32.5% of the mixture consists of component(s) of unknown acute oral toxicity. 15.75% of the

mixture consists of component(s) of unknown acute dermal toxicity. 48.25% of the mixture

consists of component(s) of unknown acute inhalation toxicity.

Material name: BL1304 SDS US

BL1304 Version #: 02 Revision date: 02-28-2023 Issue date: 09-01-2022

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium hydroxide		1310-73-2	30 - < 40
Potassium Hydroxide		1310-58-3	10 - < 20
Other components below re	eportable levels		50 - < 60

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

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 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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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 product from entering drains.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Material name: BL1304 SDS US

7. Handling and storage

Precautions for safe handling

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to

the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS	Ceiling	2 mg/m3	

US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Biological limit values

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

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

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.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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	Clear
Physical state	Liquid.
Form	Liquid. Liquid
Color	Colorless.
Odor	Odorless
Odor threshold	Not available.
На	12.5 - 14 1

Melting point/freezing point < -13.00 °F (< -25.00 °C)

Initial boiling point and boiling Not available.

range

Material name: BL1304

BL1304 Version #: 02 Revision date: 02-28-2023 Issue date: 09-01-2022

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 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity0 - 200 cps

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pounds per gallon 12.62

Specific gravity 1.5 - 1.53 @ 20C

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoidContact with incompatible materials. Do not mix with other chemicals.

Incompatible materialsStrong acids. Oxidizing agents. Maleic anhydride.Hazardous decompositionNo hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

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 Not known.

Components Species Test Results

Potassium Hydroxide (CAS 1310-58-3)

Acute

Oral

LD50 Rat 1.23 g/kg

Material name: BL1304 SDS US

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 Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components **Species Test Results**

Potassium Hydroxide (CAS 1310-58-3)

Aquatic

Acute

LC50 Fish Western mosquitofish (Gambusia affinis) 85 mg/l, 24 hours

> 80 mg/l, 48 hours 80 mg/l, 96 hours

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Acute

EC50 Water flea (Ceriodaphnia dubia) Crustacea 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

Material name: BL1304 SDS US 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 UN3266

UN proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide and Potassium Hydroxide)

Transport hazard class(es)

8 **Class** Subsidiary risk 8 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B2, IB2, T11, TP2, TP27 **Special provisions**

Packaging exceptions 154 Packaging non bulk 202 Packaging bulk 242

IATA

UN3266 **UN** number

UN proper shipping name Transport hazard class(es) Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide and Potassium Hydroxide)

Class 8 Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 8L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN3266

UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide and Potassium

Hydroxide)

Transport hazard class(es)

8 Class Subsidiary risk П Packing group **Environmental hazards**

> Marine pollutant No. F-A, S-B

EmS

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not established.

DOT



Material name: BL1304 SDS US

BL1304 Version #: 02 Revision date: 02-28-2023 Issue date: 09-01-2022



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)

Potassium Hydroxide (CAS 1310-58-3) Listed. Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Skin corrosion or irritation

Classified hazard Skin c categories Seriou

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

Not regulated.

(SDWA)

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.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium hydroxide (CAS 1310-73-2)

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

Material name: BL1304 SDS US

BL1304 Version #: 02 Revision date: 02-28-2023 Issue date: 09-01-2022

Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical Yes

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

Japan Inventory of Existing and New Chemical Substances (ENCS)

Korea Existing Chemicals List (ECL)

New Zealand New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Eldridge IA Nederland TX



Compliance Information: Food Regulations

21 CFR 173.310

16. Other information, including date of preparation or last revision

 Issue date
 09-01-2022

 Revision date
 02-28-2023

Version # 02

HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 1 Personal protection: X

Disclaimer ChemTreat,

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any other nature are made hereunder with respect to information or the product to which

information refers.

Revision information Transport Information: Material Transportation Information

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: BL1304 SDS US

^{*}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).





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:ChemTreat BL1558Product Use:Steam Line TreatmentSupplier's Name:ChemTreat, Inc.

Emergency Telephone Number: (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

Telephone Number for Information:(800)648-4579Date of SDS:September 12, 2019Revision Date:September 12, 2019

Revision Number: 19091201AN

Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s): Skin corrosion/irritation – Category 1b

Eye damage/irritation – Category 1 Acute Toxicity Oral – Category 4 Acute Toxicity Dermal – Category 4 Reproductive Toxicity – Category 2 Sensitization Skin – Category 1 Flammable Liquids – Category 3

Hazard Statement(s): H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statement(s):





Prevention: P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well–ventilated area. P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P272 Contaminated work clothing should not be allowed

out of the workplace.

P233 Keep container tightly closed.

P220 Keep away from clothing and other combustible

materials.

P241 Use explosion-proof electrical/ventilating/lighting

equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

Response: P301 + P312 IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/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. P363 Wash contaminated clothing before reuse. P302 + P352 IF ON SKIN: Wash with plenty of soap

and water.

P362 + P364 Take off contaminated clothing and wash

it before reuse.

P308 + P313 IF exposed or concerned: Get medical

advice/attention.

P370 + P378 In case of fire: Use extinguishing media

suitable to surrounding fire to extinguish.

Storage: P405 Store locked up.

P403 + P235 Store in a well-ventilated place. Keep

cool.

Disposal: P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).





Hazards Not Otherwise

None.

Classified:

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
3–Methoxypropylamine	5332-73-0	10 – 30
Cyclohexylamine	108–91–8	10 – 30
Diethylhydroxylamine	3710-84-7	1 – 5

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a poison center or

doctor/physician.

Eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.

Skin: Immediately remove/take off all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before re-use.

Immediately call a poison center or doctor/physician.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A





Section 5. Fire Fighting Measures

Flammability of the Product: Negative results obtained in sustained combustion test.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from

the Chemical:

Product may emit toxic gases or fumes under fire conditions.

Protective Equipment: If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802.

Section 7. Handling and Storage

Handling: Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Protect from heat and sources of ignition.

Store above Freeze Point.





Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
3-Methoxypropylamine	N/E	N/E
Cyclohexylamine	ACGIH TLV	41 mg/m³ TWA
Diethylhydroxylamine	N/E	N/E

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

Personal Protection

Vapor Density:

Eyes: Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

Skin: Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

Respiratory: If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.

N/D

Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Colorless, Clear

Specific Gravity: 0.962 @ 20°C

pH: 13.3 @ 20°C, 100.0%

Freezing Point: <-13°F
Flash Point: 122°F
Odor: Strong
Melting Point: N/A
Initial Boiling Point and Boiling Range: 212°F

Solubility in Water: Complete Evaporation Rate: N/D

Molecular Weight:N/DViscosity:N/AFlammability (solid, gas):N/DFlammable Limits:N/A





Autoignition Temperature: N/A

Density: 8.02 LB/GA

Vapor Pressure:N/D% VOC:50Odor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Acids.

Hazardous Decomposition

Products:

Oxides of carbon, Oxides of nitrogen.

Possibility of Hazardous

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
3-Methoxypropylamine	Oral	LD50	6260 MG/KG	Rat
	Oral	LD50	0.69 G/KG	Rat
	Dermal	LD50	>2 G/KG	Rabbit
	Oral	LD50	690 MG/KG	Rat
Cyclohexylamine	Oral	LD50	156 MG/KG	Rat
	Dermal	LD50	277 MG/KG	Rabbit
Diethylhydroxylamine	Oral	LD50	2190 MG/KG	Rat
	Dermal	LD50	1300 MG/KG	Rabbit

Carcinogenicity Category

Component	Source	Code	Brief Description
3-Methoxypropylamine	N/E	N/E	N/E
Cyclohexylamine	ACGIH	TLV-A4	Not classifiable as a human carcinogen.
Diethylhydroxylamine	N/E	N/E	N/E





Likely Routes of Exposure: N/D

Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye

Irritation:

N/D

Sensitization:

N/D

Germ Cell Mutagenicity:

N/D

Reproductive/Developmental

Toxicity:

N/D

Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

Aspiration Hazard: N/D

Comments: None.

Section 12. Ecological Information

Ecotoxicity

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	195 mg/l
Fathead Minnow	96h	LC50	367 mg/l
Rainbow Trout	96h	LC50	884 mg/l
Mysid Shrimp	48h	LC50	524 mg/l
Inland Silverside	96h	LC50	578 mg/l

Persistence and

Biodegradability:

N/D





Bioaccumulative Potential: N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D

Comments: None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form. EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form.

Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN2734	AMINES, LIQUID, CORROSIVE,	(CYCLOHEXYLAMINE AND	8, 3	PGII
		FLAMMABLE, N.O.S.	3-METHOXYPROPYLAMINE)		
TDG	UN2734	AMINES, LIQUID, CORROSIVE,	(CYCLOHEXYLAMINE AND	8, 3	PGII
		FLAMMABLE, N.O.S.	3-METHOXYPROPYLAMINE)		ļ

Note: N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA): All ingredients listed. Canada (DSL/NDSL): All ingredients listed.





Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Yes
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: No

Other Sections

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
3-Methoxypropylamine	N/A	N/A	100
Cyclohexylamine	N/A	10000	N/A
Diethylhydroxylamine	N/A	N/A	N/A

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
3-Methoxypropylamine	MN, PA
Cyclohexylamine	MA, MN, NJ, NY, PA, WA
Diethylhydroxylamine	None.

Compliance Information

NSF: N/A

Food Regulations: N/A

KOSHER: This product is certified by the Orthodox Union as kosher

pareve.

Only when prepared by the following ChemTreat facilities: Ashland, VA; Eldridge, IA; Nederland, TX; Fontana, CA.

Halal: This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None





Comments: None.

Section 16. Other Information

HMIS Hazard Rating

Health: 2
Flammability: 2
Physical Hazard: 0
PPE: X

Notes: The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for

their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: September 12, 2019





Disclaimer

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hemTreat*

SAFETY DATA SHEET



1. Identification

Product identifier BL1770

Other means of identification

Product code BL1770

Recommended use **Boiler Water Treatment**

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

ChemTreat Company name 5640 Cox Road **Address**

Glen Allen, VA 23060 **United States**

Telephone 800-648-4579 Not available. E-mail

800-424-9300 **Emergency phone number**

2. Hazard(s) identification

Not classified. Physical hazards

Health hazards Skin corrosion/irritation Category 2 Category 2B

Serious eye damage/eye irritation

Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Causes skin irritation. Causes eye irritation. **Hazard statement**

Precautionary statement

Prevention Wash thoroughly after handling. Wear protective gloves.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 36.27% of the mixture consists of component(s) of unknown acute oral toxicity. 40.91% of the

> mixture consists of component(s) of unknown acute dermal toxicity. 36.27% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 36.27% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Tetrapotassium pyrophosphate		7320-34-5	20 - < 30
Other components below reportat	le levels		70 - < 80

Material name: BL1770 SDS US

BL1770 Version #: 01 Issue date: 08-01-2022

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. 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. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

irritation, may cause redness and pain.

Provide general supportive measures and treat symptomatically. 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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

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 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

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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values

Components	Туре	Value
Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3

Material name: BL1770 sps us

US. NIOSH: Pocket Guide to Chemical Hazards

Components **Type** Value

Potassium Hydroxide (CAS Ceiling 2 mg/m3

1310-58-3)

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. Provide eyewash station and safety

shower.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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. Liquid Color Not available.

Mild Odor

Odor threshold Not available. 8 - 12.4 @100% Melting point/freezing point 10.40 °F (-12.00 °C)

Initial boiling point and boiling

range

Not available.

Flash point Not available. Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Vapor pressure Not available.

Not available. Vapor density Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. 0 - 200 cps **Viscosity**

Material name: BL1770 SDS US 3/7 Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pounds per gallon 11.33

Specific gravity 1.35 - 1.36 @ 20C

VOC 0 %w/w

10. Stability and reactivity

ReactivityThe 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

No dangerous reaction known under conditions of normal use.

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 Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin

irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

Potassium Hydroxide (CAS 1310-58-3)

Acute Oral

LD50 Rat 1.23 g/kg

Skin corrosion/irritationCauses skin irritation.Serious eye damage/eyeCauses eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Material name: BL1770 SDS US

BL1770 Version #: 01 Issue date: 08-01-2022

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

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.

Product Species Test Results

BL1770

Aquatic

Crustacea LC50 Ceriodaphnia dubia 707.1 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 745.2 mg/l, 96 hours

Components Species Test Results

Potassium Hydroxide (CAS 1310-58-3)

Aquatic

Acute

Fish LC50 Western mosquitofish (Gambusia affinis) 85 mg/l, 24 hours

80 mg/l, 48 hours 80 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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.

Material name: BL1770 SDS US

BL1770 Version #: 01 Issue date: 08-01-2022

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium Hydroxide (CAS 1310-58-3)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Skin corrosion or irritation

categories 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

Not regulated.

Inventory name

(SDWA)

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

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

Listed.

Toxic Substances Control Act (TSCA) Inventory

Compliance Information: Halal

United States & Puerto Rico

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Eldridge IA Ashland VA Eldridge IA Nederland TX Fontana CA

Material name: BL1770 sps us

BL1770 Version #: 01 Issue date: 08-01-2022

Yes

On inventory (yes/no)*

^{*}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).



Compliance Information: NSF Whitebook

This product conforms to the requirements of the NSF Nonfood Compounds Registration Program, Registration #; Category G7.



Compliance Information: Food Regulations

21 CFR 173.310 - FDA: All ingredients in this product are authorized in 21 CFR 173.310 (d) for use as "Boiler Water Additives" where the steam may contact food, not to exceed the listed limitations, and excluding use of such steam in contact with milk and milk products.

16. Other information, including date of preparation or last revision

Issue date 08-01-2022

Version # 01

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: X

Disclaimer ChemTreat cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: BL1770 SDS US

ChemTreat*

SAFETY DATA SHEET

1. Identification

Product identifier CL401

Other means of identification

Product code CL401

Recommended use Dispersant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreatAddress5640 Cox Road

Glen Allen, VA 23060

United States

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 3.5% of the mixture consists of component(s) of unknown acute oral toxicity. 3.5% of the mixture

consists of component(s) of unknown acute dermal toxicity. 3.5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 3.5% of the mixture consists of component(s)

of unknown acute hazards to the aquatic environment. 3.5% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol (ethyl Alcohol)		64-17-5	< 0.3
Other components below re	portable levels		90 - 100

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Material name: CL401 SDS US

CL401 Version #: 01 Issue date: 09-07-2022

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

General information

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk.

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted. General fire hazards

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. 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 product from entering drains.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Ethanol (ethyl Alcohol) (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm

Material name: CL401 SDS US **US. ACGIH Threshold Limit Values**

Value Components Type Ethanol (ethyl Alcohol) STEL 1000 ppm

(CAS 64-17-5)

US. NIOSH: Pocket Guide to Chemical Hazards

Components Value Type Ethanol (ethyl Alcohol) **TWA** 1900 mg/m3 (CAS 64-17-5)

1000 ppm

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.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 Clear

> Liquid. **Physical state**

Form Liquid. Liquid

Color Straw Odor Odorless Not available. Odor threshold

7 - 9 @ 100% Ηq Melting point/freezing point 33.80 °F (1.00 °C)

Initial boiling point and boiling Not available.

range

> 200.0 °F (> 93.3 °C) Flash point

Not available. **Evaporation rate** 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. Not available. Vapor pressure Not available. Vapor density

Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Material name: CL401 3/7

CL401 Version #: 01 Issue date: 09-07-2022 Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity0 - 200 cps

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pounds per gallon 8.43

Specific gravity 1.01 - 1.02 @ 20C

VOC 1 %w/w

10. Stability and reactivity

ReactivityThe 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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. 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 Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

Ethanol (ethyl Alcohol) (CAS 64-17-5)

Acute Oral

LD50 Rat 6.2 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Material name: CL401 SDS US

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Harmful to aquatic life with long lasting effects. **Ecotoxicity**

Product Species Test Results

CL401

Aquatic

Crustacea LC50 Ceriodaphnia dubia 600 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 87 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol (ethyl Alcohol) -0.31

No data available. Mobility in soil

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the **Disposal instructions**

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard **US federal regulations**

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)

Ethanol (ethyl Alcohol) (CAS 64-17-5) Listed.

Material name: CL401

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (ethyl Alcohol) (CAS 64-17-5) Low priority

US state regulations

California Proposition 65



WARNING: This product can expose you to Ethanol (ethyl Alcohol), which is known to the State of California to

cause cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Ethanol (ethyl Alcohol) (CAS 64-17-5) Listed: April 29, 2011

Listed: July 1, 1988

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethanol (ethyl Alcohol) (CAS 64-17-5) Listed: October 1, 1987

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

09-07-2022 Issue date

Version # 01

Material name: CL401 SDS US **HMIS®** ratings Health: 0

Flammability: 0 Physical hazard: 0 Personal protection: X

Disclaimer

ChemTreat cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Other information

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: CL401 SDS US 7/7

CL401 Version #: 01 Issue date: 09-07-2022





SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use:Quadrasperse® CL5830
Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

Emergency Telephone Number: (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

Telephone Number for Information: (800)648–4579
Date of SDS: January 2, 2020
Revision Date: January 2, 2020
Revision Number: 20010201AN

Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s): Skin corrosion/irritation – Category 1b

Eye damage/irritation – Category 1 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4

Hazard Statement(s): H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H312 Harmful in contact with skin.

H332 Harmful if inhaled. H302 Harmful if swallowed.

Precautionary Statement(s):

Prevention: P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well–ventilated area. P280 Wear protective gloves/protective clothing/eye

protection/face protection.





Response: P301 + P312 IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/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. P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Hazards Not Otherwise

Classified:

None.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
2-Phosphono-1,2,4-butane tricarboxylic acid	37971–36–1	1 – 5
Tetrapotassium pyrophosphate	7320–34–5	1 – 5
Potassium hydroxide	1310–58–3	5 – 10
Tolyltriazole, sodium salt	64665–57–2	3 – 7
Potassium phosphate, tribasic	7778–53–2	5 – 10

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.





Section 4. First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a poison center or

doctor/physician.

Eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.

Skin: Immediately remove/take off all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before re-use.

Immediately call a poison center or doctor/physician.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A

Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from

the Chemical:

None known.

Protective Equipment: If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.





Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802. Reportable Quantity of the product is 1182 Gal.

Section 7. Handling and Storage

Handling: Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Storage: Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Store above Freeze Point.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E
Tetrapotassium pyrophosphate	N/E	N/E
Potassium hydroxide	ACGIH TLV	2 mg/m³ Ceiling
Tolyltriazole, sodium salt	N/E	N/E
Potassium phosphate, tribasic	N/E	N/E

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.





Personal Protection

Eyes: Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

Skin: Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

Respiratory: If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Amber, Clear

Specific Gravity: 1.352 @ 20°C

pH: 13.0 @ 20°C, 100.0%

Freezing Point:

Flash Point:

N/A

Odor:

Mild

Melting Point:

Initial Boiling Point and Boiling Range:

Solubility in Water:

Evaporation Rate:

23°F

N/A

N/A

Nild

N/A

212°F

Complete

N/D

Vapor Density: N/D
Molecular Weight: N/D

Viscosity: <100 CPS @ 20°C

Flammability (solid, gas):

Flammable Limits:

N/A

Autoignition Temperature:

N/A

Density: 11.28 LB/GA

Vapor Pressure:N/D% VOC:<1.3</td>Odor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D





Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Acids.

Hazardous Decomposition

Products:

Oxides of nitrogen, Oxides of carbon, Oxides of phosphorus.

Possibility of Hazardous

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D

Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
2-Phosphono-1,2,4-butane tricarboxylic acid	Oral	LD50	>6500 MG/KG	Rat
Tetrapotassium pyrophosphate	Oral	LD50	2980 MG/KG	Rat
	Dermal	LD50	>7940 MG/KG	Rabbit
Potassium hydroxide	Oral	LD50	365 MG/KG	Rat
Tolyltriazole, sodium salt	Oral	LD50	920 MG/KG	Rat
	Dermal	LD50	>2 G/KG	Rabbit

Carcinogenicity Category

Component	Source	Code	Brief Description
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E	N/E
Tetrapotassium pyrophosphate	N/E	N/E	N/E
Potassium hydroxide	N/E	N/E	N/E
Tolyltriazole, sodium salt	N/E	N/E	N/E
Potassium phosphate, tribasic	N/E	N/E	N/E

Likely Routes of Exposure: N/D





Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye

Irritation:

N/D

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

Toxicity:

N/D

Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

Aspiration Hazard: N/D

Comments: None.

Section 12. Ecological Information

Ecotoxicity

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	797 mg/l
Ceriodaphnia dubia	48h	LC50	879 mg/l

Persistence and Biodegradability:

N/D

Bioaccumulative Potential: N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D





Comments: None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1760	CORROSIVE LIQUIDS, N.O.S.	(POTASSIUM HYDROXIDE)	8	PGII
Over 1182 GA	RQ UN1760	CORROSIVE LIQUIDS, N.O.S.	(POTASSIUM HYDROXIDE)	8	PGII

Note: N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No

Other Sections

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
2-Phosphono-1,2,4-butane tricarboxylic acid	N/A	N/A	N/A
Tetrapotassium pyrophosphate	N/A	N/A	N/A
Potassium hydroxide	N/A	N/A	1000





	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
Tolyltriazole, sodium salt	N/A	N/A	N/A
Potassium phosphate, tribasic	N/A	N/A	N/A

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
2-Phosphono-1,2,4-butane tricarboxylic acid	None.
Tetrapotassium pyrophosphate	None.
Potassium hydroxide	MA, MN, NY, PA, WA
Tolyltriazole, sodium salt	None.
Potassium phosphate, tribasic	None.

Compliance Information

NSF: N/A

Food Regulations: N/A

KOSHER: This product has not been evaluated for Kosher approval.

Halal: This product has not been evaluated for Halal approval.

FIFRA: N/A

Other: None

Comments: None.

Section 16. Other Information

HMIS Hazard Rating

Health: 2
Flammability: 0
Physical Hazard: 0
PPE: X





Notes:

The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for their use.

Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: January 2, 2020

Disclaimer

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ChemTreat*

SAFETY DATA SHEET



1. Identification

Product identifier RL124

Other means of identification

Product code RL124

Recommended use Reverse Osmosis Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Glen Allen, VA 23060

United States

Telephone 800-648-4579
Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1Sensitization, respiratoryCategory 1Sensitization, skinCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May be corrosive to metals. Causes skin irritation. May cause an allergic skin reaction. Causes

serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Keep only in original container. Avoid breathing mist/vapors. Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves. In case of inadequate

ventilation wear respiratory protection.

Response If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Absorb spillage to prevent material damage.

Storage Store in corrosive resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

Material name: RL124 SDS US

RL124 Version #: 04 Revision date: 03-29-2023 Issue date: 07-13-2022

Supplemental information

30% of the mixture consists of component(s) of unknown acute dermal toxicity. 30% of the mixture consists of component(s) of unknown acute inhalation toxicity. 30% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 30% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

N	Λ	i	×	tı	ı	re	S

Chemical name	Common name and synonyms	CAS number	%
Sodium bisulfite		7631-90-5	25 - < 40
Other components below	reportable levels		70 - < 80

4. First-aid measures

Inhalation

If breathing is difficult, remove 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. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Get medical attention immediately.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. 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. Wash contaminated clothing before reuse.

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.

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. Avoid breathing 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 spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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.

Material name: RL124 SDS US

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Store in tightly closed container. Keep only in the original 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Sodium bisulfite (CAS 7631-90-5)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Sodium bisulfite (CAS	TWA	5 mg/m3	

Biological limit values

7631-90-5)

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. General ventilation normally adequate. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance Clear **Physical state** Liquid. Liquid. Liquid **Form** Color Yellow Odor Strong **Odor threshold** Not available. 3.9 @ 100% 30.20 °F (-1.00 °C) Melting point/freezing point Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Material name: RL124 SDS US

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Flammability limit - upper

Not available.

Not available.

(%) Explosive limit - lower (%)

Not available. Not available. Explosive limit - upper (%)

Vapor pressure 0.00001 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** 0 - 200 cps

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing. 21 % estimated Percent volatile

Pounds per gallon 10.3

Specific gravity 1.24 @ 20C VOC 0 %w/w

10. Stability and reactivity

Reactivity May be corrosive to metals.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Metals. Strong acids. **Hazardous decomposition** No hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation Inhalation

may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Material name: RL124 SDS US Components **Species Test Results**

Sodium bisulfite (CAS 7631-90-5)

Acute Oral

LD50 Rat 2 g/kg

Causes skin irritation. Skin corrosion/irritation Serious eye damage/eye Causes serious eye damage.

irritation

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory sensitization

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium bisulfite (CAS 7631-90-5) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

<u> </u>				
Ecotoxicity	Harmful to a	quatic life with long lasting effects.		
Product		Species	Test Results	
RL124				
Aquatic				
Crustacea	LC50	Ceriodaphnia dubia	459 mg/l, 48 hours	
			390.4 mg/l, 48 hours	
		Opossum shrimp order (Mysida)	70.7 mg/l, 48 hours	
	LOEC	Ceriodaphnia dubia	600 mg/l, 7 days	
	NOEC	Ceriodaphnia dubia	300 mg/l, 7 days	
Fish	IC25	Fathead minnow (Pimephales promelas)	750 mg/l, 7 days	
	LC50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hours	
			849 mg/l, 96 hours	
		Sheepshead minnow (Cyprinodon variegatus)	100 mg/l, 96 hours	
	LOEC	Fathead minnow (Pimephales promelas)	1200 mg/l, 7 days	
	NOEC	Fathead minnow (Pimephales promelas)	600 mg/l, 7 days	
Persistence and degradability	No data is a	vailable on the degradability of any ingredier	nts in the mixture.	
Bioaccumulative potential	No data avai	lable.		
Mobility in soil	No data avai	lable.		
Other adverse effects		erse environmental effects (e.g. ozone depl docrine disruption, global warming potential)	•	

Material name: RL124 SDS US

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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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

UN2693 **UN** number

UN proper shipping name BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es)

8 Class Subsidiary risk Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154 203 Packaging non bulk Packaging bulk 241

IATA

UN number UN2693

UN proper shipping name BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite)

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN2693

BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (Sodium bisulfite) **UN proper shipping name**

Not established.

Transport hazard class(es)

8 Class Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant No.

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Material name: RL124 SDS US

RL124 Version #: 04



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Listed.

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)

Sodium bisulfite (CAS 7631-90-5)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Yes

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard categories

Corrosive to metal

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

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

Not regulated.

(SDWA)

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.

Material name: RL124 SDS US

International Inventories

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances	Yes
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Nederland TX Fontana CA



Compliance Information: NSF Whitebook

Compliance Information: NSF Standard 60

This product is certified to NSF/ANSI Standard 60 for the following approved function: Dechlorination. Maximum use rate for potable water - 50. This product ships as NSF from:

09132 - Ashland VA 09133 - Eldridge IA 09131 - Nederland TX #32 USA



16. Other information, including date of preparation or last revision

 Issue date
 07-13-2022

 Revision date
 03-29-2023

Version # 04

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0 Personal protection: X

Material name: RL124 SDS US

RL124 Version #: 04 Revision date: 03-29-2023 Issue date: 07-13-2022

^{*}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).

Disclaimer

ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Revision information Other information Stability and reactivity: Incompatible materials

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: RL124 SDS US

ChemTreat*

SAFETY DATA SHEET

1. Identification

Product identifier RL1700

Other means of identification

Product code RL1700

Recommended use Reverse Osmosis Membrane Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ChemTreat, Inc.

Address 5640 Cox Road

Glen Allen, VA 23060

United States

Telephone 800-648-4579
Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage. May cause damage to

organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life

Category 3

with long lasting effects.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Avoid release to the environment.

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 locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: RL1700 SDS US

RL1700 Version #: 02 Revision date: 02-28-2023 Issue date: 08-08-2022

Supplemental information

4.31% of the mixture consists of component(s) of unknown acute oral toxicity. 23.5% of the mixture consists of component(s) of unknown acute dermal toxicity. 23.81% of the mixture consists of component(s) of unknown acute inhalation toxicity. 23.5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 4% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
EDTA, Tetrasodium salt		64-02-8	10 - < 20
citric acid		77-92-9	1 - < 3
Sodium hydroxide		1310-73-2	1 - < 3
Trisodium nitrilotriacetate		5064-31-3	< 1
Other components below reporta	ble levels		70 - < 80

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

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. Prolonged exposure may cause chronic effects.

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 under observation. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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 General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

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.

Material name: RL1700 SDS US

Methods and materials for containment and cleaning up

Prevent product from entering drains.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value				
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3				
US. ACGIH Threshold Limit Values	US. ACGIH Threshold Limit Values					
Components	Туре	Value				
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3				
US. NIOSH: Pocket Guide to Chemi	cal Hazards					
Components	Туре	Value				

Sodium hydroxide (CAS Ceiling 2 mg/m3 1310-73-2)

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

Chemical respirator with organic vapor cartridge and full facepiece. Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

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. Liquid

Material name: RL1700 SDS US

RL1700 Version #: 02 Revision date: 02-28-2023 Issue date: 08-08-2022

ColorNot available.OdorOdorlessOdor thresholdNot available.pH12.5 - 14 100

Melting point/freezing point $28.40 \, ^{\circ}\text{F} \, (-2.00 \, ^{\circ}\text{C}) =$

Initial boiling point and boiling

range

Not available.

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Not available.

Not applicable.

Flammability limit - lower

er Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 0 - 200 cps

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 9.84

Specific gravity 1.12 - 1.2 @ 20C

10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoidContact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Strong acids. Oxidizing agents.

Hazardous decompositionNo hazardous decomposition products are known.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

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.

Material name: RL1700 SDS US

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

citric acid (CAS 77-92-9)

Acute Oral

LD50 Rat 6730 mg/kg

Trisodium nitrilotriacetate (CAS 5064-31-3)

Acute Inhalation

LC50 - > 5 mg/l, 4 Hours

Oral

LD50 Rat 1100 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 Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Trisodium nitrilotriacetate (CAS 5064-31-3)

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Ecotoxicity

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

Harmful to aquatic life with long lasting effects.

repeated exposure. Prolonged exposure may cause chronic effects.

12. Ecological information

 		1 9 9	
Product		Species	Test Results
RL1700			
Aquatic			
Crustacea	LC50	Ceriodaphnia dubia	342 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	91.9 mg/l, 96 hours
Components		Species	Test Results

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Acute

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Material name: RL1700 sps us

RL1700 Version #: 02 Revision date: 02-28-2023 Issue date: 08-08-2022

Partition coefficient n-octanol / water (log Kow)

-1.64 citric acid

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the **Disposal instructions**

> material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylenediaminetetraacetic acid tetrasodium

salt and Sodium hydroxide)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B2. IB2. T11. TP2. TP27 Special provisions

154 Packaging exceptions 202 Packaging non bulk Packaging bulk 242

IATA

UN3267 **UN number**

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylenediaminetetraacetic acid tetrasodium

salt and Sodium hydroxide)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш **Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN3267

UN proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylenediaminetetraacetic acid tetrasodium

salt and Sodium hydroxide)

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш

Environmental hazards

Marine pollutant Nο

EmS Not available.

Material name: RL1700 SDS US Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

1. Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



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)

Sodium hydroxide (CAS 1310-73-2)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Skin corrosion or irritation

categories Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

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 Not regulated.

(SDWA)

Material name: RL1700 SDS US

RL1700 Version #: 02 Revision date: 02-28-2023 Issue date: 08-08-2022

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.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Sodium hydroxide (CAS 1310-73-2) Trisodium nitrilotriacetate (CAS 5064-31-3)

Inventory name

International Inventories

Country(s) or region

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).

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Eldridge IA Nederland TX



Compliance Information: NSF Whitebook

Compliance Information: NSF Standard 60

This product is certified to NSF/ANSI Standard 60 for the following approved function: Membrane Cleaner. This product is designed to be used off-line and flushed out prior to using the system for drinking water. This product ships as NSF from:

09132 - Ashland VA 09133 - Eldridge IA 09131 - Nederland TX



Material name: RL1700 SDS US

On inventory (yes/no)*

16. Other information, including date of preparation or last revision

 Issue date
 08-08-2022

 Revision date
 02-28-2023

Version # 02

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0 Personal protection: X

Disclaimer

ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Revision information Transport Information: Material Transportation Information

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: RL1700 SDS US

ChemTreat*

SAFETY DATA SHEET

1. Identification

Product identifier RL2016

Other means of identification

Product code RL2016

Recommended use Reverse Osmosis and Resin Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreatAddress5640 Cox Road

Glen Allen, VA 23060 United States

Telephone 800-648-4579
E-mail Not available.
Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2B

Specific target organ toxicity, single exposure Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes eye irritation. May cause damage to organs.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If exposed or concerned: Call a poison center/doctor. If eye irritation

persists: Get medical advice/attention.

Storage 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 19.2% of the mixture consists of component(s) of unknown acute dermal toxicity. 19.2% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment. 19.2% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
citric acid		77-92-9	10 - < 20

Material name: RL2016 sps us

RL2016 Version #: 01 Issue date: 08-08-2022

Chemical name	Common name and synonyms	CAS number	%
Phosphonic Acid,		2809-21-4	3 - < 5
1-(1-hydroxyethylidene)bis-			
Other components below report	able levels		80 - < 90

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Get medical attention if symptoms occur.

Most important

Ingestion

symptoms/effects, acute and delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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 General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

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 Should not be released into the environment.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist/vapors. Avoid contact with eyes. When using, do not eat, drink or smoke. Provide adequate ventilation. 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 away from incompatible materials (see Section 10 of the SDS).

SDS US

8. Exposure controls/personal protection

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit. Occupational exposure limits

Material name: RL2016 2/7 **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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

Liquid. **Physical state**

Form Liquid. Liquid Color Not available.

Mild Odor

Odor threshold Not available. 0 - 2.910032.00 °F (0 °C) = Melting point/freezing point

Initial boiling point and boiling Not available.

range

Flash point Not available. **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available. Vapor pressure Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient**

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** 0 - 200 cps **Viscosity**

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing.

Pounds per gallon 9.12

Specific gravity 1.08 - 1.1 @ 20C

Material name: RL2016 SDS US

10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Bases. Reducing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs by inhalation.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

citric acid (CAS 77-92-9)

<u>Acute</u>

Oral

LD50 Rat 6730 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause damage to organs.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

EcotoxicityBecause of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems.

Material name: RL2016 SDS US

Product Test Results Species RL2016 Aquatic LC50 Crustacea Ceriodaphnia dubia > 1000 mg/l, 48 hours Opossum shrimp order (Mysida) > 1000 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 1000 mg/l, 96 hours Rainbow Trout 7906 mg/l, 96 hours Sheepshead minnow (Cyprinodon > 1000 mg/l, 96 hours variegatus)

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

citric acid -1.64

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain

into sewers/water supplies. 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Material name: RL2016 SDS US

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Serious eye damage or eye irritation

Yes

categories Specific target organ toxicity (single or repeated exposure)

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

Not regulated.

(SDWA)

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)

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Eldridge IA Ashland VA Eldridge IA Nederland TX



Compliance Information: NSF Whitebook

Material name: RL2016 6/7

RL2016 Version #: 01 Issue date: 08-08-2022

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).

Compliance Information: NSF Standard 60

This product is certified to NSF/ANSI Standard 60 for the following approved function: Membrane Cleaner. This product is designed to be used off-line and flushed out prior to using the system for drinking water. . This product ships as NSF from:

09132 - Ashland VA 09133 - Eldridge IA 09131 - Nederland TX



16. Other information, including date of preparation or last revision

08-08-2022 Issue date

Version #

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 1 Personal protection: X

Disclaimer ChemTreat cannot anticipate all conditions under which this information and its product, or the

> products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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. ChemTreat. Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or

warranties, either expressed 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.

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com Other information

Material name: RL2016

RL2016 Version #: 01 Issue date: 08-08-2022

ChemTreat*

SAFETY DATA SHEET



1. Identification

Product identifier RL9009

Other means of identification

Product code RL9009

Recommended use Reverse Osmosis Treatment

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameChemTreat, Inc.Address5640 Cox Road

Glen Allen, VA 23060

United States

Telephone 800-648-4579
Website chemtreat.com

E-mail productcompliance@chemtreat.com

Emergency phone number 800-424-9300

2. Hazard(s) identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 1BSerious eye damage/eye irritationCategory 1

Environmental hazards Not classified.

Label elements

OSHA defined hazards



Not classified.

Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention Do not breathe mist/vapors. Wash thoroughly after handling. 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 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 19.38% of the mixture consists of component(s) of unknown acute oral toxicity. 26.08% of the

mixture consists of component(s) of unknown acute dermal toxicity. 26.08% of the mixture consists of component(s) of unknown acute inhalation toxicity. 24.43% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 24.43% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Material name: RL9009 SDS US

RL9009 Version #: 02 Revision date: 04-11-2023 Issue date: 08-09-2022

Chemical name	Common name and synonyms	CAS number	%
2-Butenedioic acid (Z)-, homopolymer		26099-09-2	5 - < 10
2-phosphonobutane-1,2,4-tricarbox ylic Acid		37971-36-1	5 - < 10
Diethylenetriaminepenta(methylene Phosphonic Acid), Sodium Salt		22042-96-2	5 - < 10
Other components below reportable	levels		80 - < 90

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

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

delayed

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

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 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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Should not be released into the environment.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: RL9009 SDS US

7. Handling and storage

Precautions for safe handling Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure.

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see

Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OARS. Workplace Environmental Exposure Level (WEEL) Guide

Form Components Value Type TWA Aerosol. 2-phosphonobutane-1,2,4-tr 10 mg/m3 icarboxylic Acid (CAS

37971-36-1)

No biological exposure limits noted for the ingredient(s). **Biological limit values**

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

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.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 Clear Liquid. Physical state **Form** Liquid. Liquid

Color Amber Odor Mild

Odor threshold Not available.

≥ 1.8 - ≤ 3 @ 100% 36.50 °F (2.50 °C) Melting point/freezing point Initial boiling point and boiling

range

Not available.

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure -0.01 hPa estimated

Vapor density Not available. Relative density Not available.

Material name: RL9009 SDS US

RL9009 Version #: 02 Revision date: 04-11-2023 Issue date: 08-09-2022

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity> 0 - < 200 cps</th>

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

Pounds per gallon 9.52

Specific gravity ≥ 1.29 - ≤ 1.14 @ 20C

10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Bases. Reducing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contactCauses severe skin burns.Eye contactCauses serious eye damage.IngestionCauses digestive tract burns.

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.

4/8

Information on toxicological effects

Acute toxicity Not known.

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 Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - Not classified.

single exposure

Material name: RL9009 SDS US

RL9009 Version #: 02 Revision date: 04-11-2023 Issue date: 08-09-2022

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential Mobility in soil

No data available. 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. Do not allow this material to drain

into sewers/water supplies. 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

UN3265 **UN number**

Corrosive liquid, acidic, organic, n.o.s. (2-phosphonobutane-1,2,4-tricarboxylic Acid and **UN proper shipping name**

Diethylenetriaminepenta(methylene Phosphonic Acid))

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Packing group Ш **Environmental hazards**

> Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B2, IB2, T11, TP2, TP27

Packaging exceptions 154 202 Packaging non bulk Packaging bulk 242

IATA

UN3265 **UN** number

Corrosive liquid, acidic, organic, n.o.s. (2-phosphonobutane-1,2,4-tricarboxylic Acid and **UN proper shipping name**

Diethylenetriaminepenta(methylene Phosphonic Acid))

Transport hazard class(es)

8 Class Subsidiary risk 8 Label(s) Ш Packing group **Environmental hazards**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN3265 **UN number**

Material name: RL9009 SDS US **UN** proper shipping name Corrosive liquid, acidic, organic, n.o.s. (2-phosphonobutane-1,2,4-tricarboxylic Acid and

Diethylenetriaminepenta(methylene Phosphonic Acid))

Transport hazard class(es)

Class 8 Subsidiary risk 8 Label(s) Ш Packing group

Environmental hazards

Marine pollutant No.

EmS Not assigned.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

DOT



IATA; IMDG



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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Corrosive to metal Skin corrosion or irritation categories

Serious eye damage or eye irritation

Material name: RL9009 SDS US

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

Not regulated.

(SDWA)

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 Australia	Inventory name Australian Inventory of Industrial Chemicals (AICIS)	On inventory (yes/no)* 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)

Compliance Information: Halal

Compliance Information: Kosher

This product is certified by the Orthodox Unionas Kosher pareve

Ashland VA Eldridge IA Nederland TX



Compliance Information: NSF Whitebook

Compliance Information: NSF Standard 60

This product is certified to NSF/ANSI Standard 60 for the following approved function:RO Antiscalant. Maximum use rate for potable water - 20. This product ships as NSF from:

09132 - Ashland VA 09133 - Eldridge IA 09131 - Nederland TX

Material name: RL9009 SDS US

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
 08-09-2022

 Revision date
 04-11-2023

Version # 02

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: X

Disclaimer ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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, ChemTreat, Inc. 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 ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed 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.

Revision information Transport Information: Material Transportation Information

Other information Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Material name: RL9009 sps us

ATTACHMENT 12 CONTRACT LABORATORY INFORMATION

Contract Lab Information:

All wastewater samples collected were shipped to and analyzed by:

Eurofins Orlando 481 Newburyport Avenue Altamonte Springs, FL 32701

Lab Contact: John Builes (+1 281-240-4200, ext 3110)

Additional parameters were taken in the field.

ATTACHMENT 13ANALYTICAL DATA

PREPARED FOR

Attn: Blair Shackford Roam Environmental LLC 3204 Hogan Ct Edmond, Oklahoma 73013

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JOB DESCRIPTION

TPDES Renewal

JOB NUMBER

670-38838-1

Eurofins Orlando 481 Newburyport Avenue Altamonte Springs FL 32701

Eurofins Orlando

Job Notes

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

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

Authorization

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Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com (561)558-4549 9

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Client: Roam Environmental LLC Project/Site: TPDES Renewal

Laboratory Job ID: 670-38838-1

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Definitions/Glossary

Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Qualifiers

HPLC/IC Qualifier

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

U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier **Qualifier Description** В Compound was found in the blank and sample.

Qualifier Description

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

A negative instrument reading had an absolute value greater than the reporting limit

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

b Result Detected in the Unseeded Control blank (USB). F1 MS and/or MSD recovery exceeds control limits.

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Seeded Control Blank (SCB) Recovery Low s

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD 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)

NFG 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)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Orlando

Page 4 of 33 5/31/2024 (Rev. 1)

Case Narrative

Client: Roam Environmental LLC

Project: TPDES Renewal

Job ID: 670-38838-1 Eurofins Orlando

Job Narrative 670-38838-1

REVISION

The report being provided is a revision of the original report sent on 5/14/2024. The report (revision 1) is being revised due to Revised report to correct units error in Trivalent Chromium calculation.

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

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

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

Receipt

The samples were received on 4/26/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

HPLC/IC

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

Metals

Method 1631E: The following sample was diluted due to the nature of the sample matrix: Pond Discharge - Grab (670-38838-2). Elevated reporting limits (RLs) are provided. The sample appears to be dirty.

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

General Chemistry

Method 3500_CR_B: The following sample(s) was prepped in hold extending analysis holding time. Preservation buffer added by laboratory: Pond Discharge - Comp (670-38838-1).

Method SM5210B_BODCalc: The method blank result associated with batch 670-88694 was higher than the method-required limit of 0.2 mg/L.

Method SM5210B_BODCalc: The correction factor for the Seeded Control Blank (SCB) for batch 670-88694 was outside the method range of 0.6 to 1.0 mg/L. Thus, there is added uncertainty for the associated sample results.

Method SM5210B_CBODCal: The method blank result associated with batch 670-88694 was higher than the method-required limit of 0.2 mg/L.

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

Eurofins Orlando

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Job ID: 670-38838-1

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Job ID: 670-38838-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge - Comp

Lab Sample ID: 670-38838-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Fluoride	6.70		2.00	1.00	mg/L		300.0	Total/NA
Nitrate as N	9.93		2.00	1.00	mg/L	5	300.0	Total/NA
Chloride	304		2.00	1.00	mg/L	5	300.0	Total/NA
Nitrite as N	1.24	J	2.00	1.00	mg/L	5	300.0	Total/NA
Sulfate	277		20.0	10.0	mg/L	20	300.0	Total/NA
Aluminum	424	В	44.4	3.78	ug/L	1	200.8	Total
								Recoverabl
Arsenic	4.71		4.44	0.433	ug/L	1	200.8	Total
Daritum	162		4 44	0.400	/1	4	200.0	Recoverabl
Barium	163		4.44	0.409	ug/L	1	200.8	Total Recoverable
Chromium	2.83		2.22	0.431	ua/l	1	200.8	Total
	2.00			0	~g/=		200.0	Recoverabl
Copper	7.31		2.22	0.714	ug/L	1	200.8	Total
								Recoverabl
Lead	1.14	J	2.22	0.270	ug/L	1	200.8	Total
NP 1-1	4.00		4.44	4.00	/1	4	000.0	Recoverable
Nickel	1.32	J	4.44	1.02	ug/L	1	200.8	Total Recoverabl
Selenium	3.52		4.44	0.537	ua/l	1	200.8	Total
Colorinam	0.02	0.5		0.001	ug/L		200.0	Recoverable
Zinc	26.4		4.44	1.43	ug/L	1	200.8	Total
								Recoverabl
Iron	0.565		0.0278	0.0137	mg/L	1	200.8	Total
								Recoverabl
Manganese	0.0178		0.00111	0.00110	mg/L	1	200.8	Total Recoverabl
Magnesium	35.0		1.11	0.0826	ma/l	10	200.8	Total
Magnosiani	00.0			0.0020	mg/L	10	200.0	Recoverable
Alkalinity	113		10.0	10.0	mg/L	1	2320B-2011	Total/NA
Total Dissolved Solids	494		5.00	5.00	mg/L	1	2540C - 2015	Total/NA
Total Suspended Solids	53.3		5.13	2.56	mg/L	1	2540D-2015	Total/NA
Nitrogen, Kjeldahl	1.92		0.400	0.180	mg/L	1	351.2	Total/NA
Oxygen, Dissolved	3.05	HF	0.400	0.400	mg/L	1	360.1	Total/NA
Total Phosphorus as P	0.751		0.100	0.0400	mg/L	1	365.4	Total/NA
Chemical Oxygen Demand	30.6		20.0	10.0	mg/L	1	410.4	Total/NA
pH	7.5	HF	0.02	0.01	SU	1	4500 H+ B-2011	Total/NA
Temperature	20.0		0.1	0.1	Deg. C	1	4500 H+ B-2011	Total/NA
Biochemical Oxygen Demand	6.48	b	6.00	6.00	mg/L	1	5210B-2016	Total/NA
Nitrogen, Organic	1.92		0.400	0.200	mg/L	1	Nitrogen,Org	Total/NA
Total Organic Carbon	4.41		2.00		mg/L	1	SM 5310C	Total/NA
TOC Result 1	4.49		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 2	4.32		2.00		mg/L	1	SM 5310C	Total/NA

Client Sample ID: Pond Discharge - Grab

Lab Sample ID: 670-38838-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Mercury	0.0197	0.00250	0.00100 ug/L	1 1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-38838-1 Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge - Comp

Lab Sample ID: 670-38838-1 Date Collected: 04/25/24 12:30

Matrix: Water Date Received: 04/26/24 09:10

Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	6.70	2.00	1.00	mg/L			04/27/24 02:45	5
Nitrate as N	9.93	2.00	1.00	mg/L			04/27/24 02:45	5
Chloride	304	2.00	1.00	mg/L			04/27/24 02:45	5
Nitrite as N	1.24 J	2.00	1.00	mg/L			04/27/24 02:45	5
Sulfate	277	20.0	10.0	mg/L			04/29/24 19:04	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	424	В	44.4	3.78	ug/L		04/26/24 14:56	04/29/24 14:52	1
Antimony	<0.452	U	2.22	0.452	ug/L		04/26/24 14:56	04/29/24 14:52	1
Arsenic	4.71		4.44	0.433	ug/L		04/26/24 14:56	04/29/24 14:52	1
Barium	163		4.44	0.409	ug/L		04/26/24 14:56	04/29/24 14:52	1
Beryllium	< 0.356	U	1.11	0.356	ug/L		04/26/24 14:56	04/29/24 14:52	1
Cadmium	<0.272	U	1.11	0.272	ug/L		04/26/24 14:56	04/29/24 14:52	1
Chromium	2.83		2.22	0.431	ug/L		04/26/24 14:56	04/29/24 14:52	1
Copper	7.31		2.22	0.714	ug/L		04/26/24 14:56	04/29/24 14:52	1
Lead	1.14	J	2.22	0.270	ug/L		04/26/24 14:56	04/29/24 14:52	1
Nickel	1.32	J	4.44	1.02	ug/L		04/26/24 14:56	04/29/24 14:52	1
Selenium	3.52	JB	4.44	0.537	ug/L		04/26/24 14:56	04/29/24 14:52	1
Silver	<0.0411	U	1.11	0.0411	ug/L		04/26/24 14:56	04/29/24 14:52	1
Thallium	<0.388	U	1.11	0.388	ug/L		04/26/24 14:56	04/29/24 14:52	1
Zinc	26.4		4.44	1.43	ug/L		04/26/24 14:56	04/29/24 14:52	1
Iron	0.565		0.0278	0.0137	mg/L		04/26/24 14:56	04/29/24 14:52	1
Manganese	0.0178		0.00111	0.00110	mg/L		04/26/24 14:56	04/29/24 14:52	1
Magnesium	35.0		1.11	0.0826	mg/L		04/26/24 14:56	04/30/24 13:45	10

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B-2011)	113		10.0		mg/L			04/29/24 13:43	1
Total Dissolved Solids (SM 2540C - 2015)	494		5.00		mg/L			04/27/24 18:45	1
Total Suspended Solids (SM 2540D-2015)	53.3		5.13	2.56	mg/L			05/01/24 12:45	1
Ammonia (as N) (EPA 350.1)	<0.0140	U F1	0.0200	0.0140	mg/L			04/29/24 14:50	1
Cr (VI) (SM 3500-Cr B-2011)	<20.0	U	40.0	20.0	ug/L			04/26/24 17:00	2
Nitrogen, Kjeldahl (EPA 351.2)	1.92		0.400	0.180	mg/L		05/02/24 15:24	05/03/24 11:26	1
Oxygen, Dissolved (EPA 360.1)	3.05	HF	0.400	0.400	mg/L			05/10/24 12:21	1
Total Phosphorus as P (EPA 365.4)	0.751		0.100	0.0400	mg/L		05/02/24 15:24	05/03/24 11:26	1
Chemical Oxygen Demand (EPA 410.4)	30.6		20.0	10.0	mg/L		05/06/24 11:00	05/06/24 11:30	1
Residual Chlorine (SM 4500 CI F-2011)	<0.0600	U HF	0.200	0.0600	mg/L			04/30/24 19:35	1
pH (SM 4500 H+ B-2011)	7.5	HF	0.02	0.01	SU			04/26/24 11:20	1
Temperature (SM 4500 H+ B-2011)	20.0	HF	0.1	0.1	Deg. C			04/26/24 11:20	1
Carbonaceous Biochemical Oxygen Demand (SM 5210 B-2016)	<6.00	U	6.00	6.00	mg/L			04/26/24 14:06	1
Biochemical Oxygen Demand (SM 5210B-2016)	6.48	b	6.00	6.00	mg/L			04/26/24 14:51	1
Nitrogen, Organic (EPA Nitrogen,Org)	1.92		0.400	0.200	mg/L			04/29/24 21:26	1
Cr (III) (SM 3500 CR B)	<10.0	U	20.0	10.0	ug/L			05/13/24 17:54	1
Total Organic Carbon (SM 5310C)	4.41		2.00	1.00	mg/L			04/26/24 20:19	1

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Lab Sample ID: 670-38838-1 Client Sample ID: Pond Discharge - Comp

Date Collected: 04/25/24 12:30

<5.00 U

Matrix: Water Date Received: 04/26/24 09:10

General Chemistry (Continι	ıed)							
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil F
TOC Result 1 (SM 5310C)	4.49	2.00	1.00	mg/L			04/26/24 20:19	
TOC Result 2 (SM 5310C)	4.32	2.00	1.00	mg/L			04/26/24 20:19	

Client Sample ID: Pond Discharge - Grab Lab Sample ID: 670-38838-2

Date Collected: 04/25/24 12:30 **Matrix: Water**

Date Received: 04/26/24 09:10

Cyanide, Available (OI CORP

OIA-1677)

Method: EPA 1631E - Mercui	ry, Low Level	(CVAFS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0197		0.00250	0.00100	ug/L		05/03/24 15:37	05/06/24 11:47	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM) (1664A)	<1.2	U	5.0	1.2	mg/L			05/01/24 09:40	1

6.00

5.00 ug/L

05/07/24 16:13

Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-87812/36

Matrix: Water

Analysis Batch: 87812

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

MB MB Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** 0.400 Nitrate as N <0.200 U 0.200 mg/L 04/27/24 01:09 Nitrite as N <0.200 U 0.400 0.200 mg/L 04/27/24 01:09

Lab Sample ID: MB 670-87812/6

Matrix: Water

Analysis Batch: 87812

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.200 U 0.200 mg/L Nitrate as N 0.400 04/26/24 16:13 Nitrite as N <0.200 U 0.400 0.200 mg/L 04/26/24 16:13

Lab Sample ID: LCS 670-87812/35

Matrix: Water

Analysis Batch: 87812

Spike LCS LCS %Rec Added Result Qualifier Analyte D %Rec Limits Unit 2.00 Nitrate as N 1.921 96 90 - 110 mg/L Nitrite as N 2 00 2 067 mg/L 103 90 - 110

Lab Sample ID: LCSD 670-87812/58

Matrix: Water

Analysis Batch: 87812

	s	pike	LCSD	LCSD				%Rec		RPD	
Analyte	Ad	lded	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate as N		2.00	1.919		mg/L		96	90 - 110	0	20	
Nitrite as N		2.00	2.064		mg/L		103	90 - 110	0	20	

Lab Sample ID: MB 670-87813/36

Matrix: Water

Analysis Batch: 87813

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Fluoride <0.200 U 0.400 0.200 mg/L 04/27/24 01:09 Chloride <0.200 U 0.400 0.200 mg/L 04/27/24 01:09 <0.500 U 0.500 mg/L 04/27/24 01:09 Sulfate 1.00

Lab Sample ID: MB 670-87813/6

Matrix: Water

Analysis Batch: 87813

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			04/26/24 16:13	1
Chloride	<0.200	U	0.400	0.200	mg/L			04/26/24 16:13	1
Sulfate	< 0.500	U	1.00	0.500	ma/L			04/26/24 16:13	1

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Client Sample ID: Method Blank

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Job ID: 670-38838-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography (Continued)

<0.500 U

Lab Sample ID: LCS 670-87813/35

Matrix: Water

Analysis Batch: 87813

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits D %Rec Fluoride 2.00 2.077 mg/L 104 90 - 110 Chloride 4.00 3.768 mg/L 94 90 - 110 Sulfate 10.0 10.53 mg/L 90 - 110 105

Lab Sample ID: LCSD 670-87813/58 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 87813

Prep Type: Total/NA

04/29/24 17:56

7	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluoride	2.00	2.068		mg/L		103	90 - 110	0	20
Chloride	4.00	3.757		mg/L		94	90 - 110	0	20
Sulfate	10.0	10.74		mg/L		107	90 - 110	2	20

Lab Sample ID: MB 670-88152/11 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 88152

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Fluoride <0.200 U 0.400 0.200 mg/L 04/29/24 17:56 Chloride <0.200 U 0.400 0.200 mg/L 04/29/24 17:56

Lab Sample ID: LCS 670-88152/9 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

1.00

0.500 mg/L

Matrix: Water

Sulfate

Analysis Batch: 88152

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Fluoride	 2.00	2.131		mg/L		107	90 - 110	
Chloride	4.00	3.959		mg/L		99	90 - 110	
Sulfate	10.0	9.644		mg/L		96	90 - 110	

Lab Sample ID: LCSD 670-88152/10 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88152

RI	PD
RPD Lir	mit
0	20
0	20
0	20

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-670521/3-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 670612

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Mercury <0.000200 U 0.000500 0.000200 ug/L 05/03/24 16:00 05/06/24 09:37

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Prep Batch: 670521

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-38838-1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCS 400-670521/4-A				Clie	ent Sample I	D: Lab Control Sample
Matrix: Water						Prep Type: Total/NA
Analysis Batch: 670612						Prep Batch: 670521
	Spike	LCS	LCS			%Rec
Analyte	Added	Result	Qualifier	Unit	D %Rec	l imits

0.004948

ug/L

79 - 121

Lab Sample ID: LCSD 400-670521/5-A Matrix: Water Analysis Batch: 670612			(Client S	ample	ID: Lab	Control Prep Ty Prep Ba	pe: Tot	al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00500	0.005075		ug/L		102	79 - 121	3	20

0.00500

Lab Sample ID: 670-30030-	·2 IVI3					Cilent	sampi	ie ib: P	ona Discha	rge - Grab
Matrix: Water									Prep Type	: Total/NA
Analysis Batch: 670612									Prep Bato	:h: 670521
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.0197		0.0250	0.04254		ug/L		91	71 - 125	

Lab Sample ID: 670-38838-2 Matrix: Water Analysis Batch: 670612	2 MSD					Client	Samp	le ID: P	ond Disch Prep Ty Prep Ba	pe: Tot	al/NA
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.0197		0.0250	0.04297		ug/L		93	71 - 125	1	24

Method: 200.8 - Metals (ICP/MS)

Mercury

Lab Sample ID: MB 670-87920/3-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total Recoverable
Analysis Batch: 88330	Prep Batch: 87920

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.610	J	40.0	3.40	ug/L		04/26/24 14:56	04/29/24 14:06	1
Antimony	<0.407	U	2.00	0.407	ug/L		04/26/24 14:56	04/29/24 14:06	1
Arsenic	< 0.390	U	4.00	0.390	ug/L		04/26/24 14:56	04/29/24 14:06	1
Barium	<0.368	U	4.00	0.368	ug/L		04/26/24 14:56	04/29/24 14:06	1
Beryllium	<0.320	U	1.00	0.320	ug/L		04/26/24 14:56	04/29/24 14:06	1
Cadmium	<0.245	U	1.00	0.245	ug/L		04/26/24 14:56	04/29/24 14:06	1
Chromium	<0.388	U	2.00	0.388	ug/L		04/26/24 14:56	04/29/24 14:06	1
Copper	< 0.643	U	2.00	0.643	ug/L		04/26/24 14:56	04/29/24 14:06	1
Lead	<0.243	U	2.00	0.243	ug/L		04/26/24 14:56	04/29/24 14:06	1
Nickel	<0.915	U	4.00	0.915	ug/L		04/26/24 14:56	04/29/24 14:06	1
Selenium	1.102	J	4.00	0.483	ug/L		04/26/24 14:56	04/29/24 14:06	1
Silver	< 0.0370	U	1.00	0.0370	ug/L		04/26/24 14:56	04/29/24 14:06	1
Thallium	<0.349	U	1.00	0.349	ug/L		04/26/24 14:56	04/29/24 14:06	1
Zinc	<1.29	U	4.00	1.29	ug/L		04/26/24 14:56	04/29/24 14:06	1
Iron	<0.0124	UL	0.0250	0.0124	mg/L		04/26/24 14:56	04/29/24 14:06	1
Manganese	<0.000987	U	0.00100	0.000987	mg/L		04/26/24 14:56	04/29/24 14:06	1
Magnesium	< 0.00743	U	0.100	0.00743	mg/L		04/26/24 14:56	04/29/24 14:06	1

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Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 670-87920/1-A

Matrix: Water

Analysis Batch: 88330

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 87920

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	4694		ug/L		94	85 - 115	
Antimony	100	92.53		ug/L		93	85 - 115	
Arsenic	100	89.51		ug/L		90	85 - 115	
Barium	100	91.88		ug/L		92	85 - 115	
Beryllium	100	85.01		ug/L		85	85 - 115	
Cadmium	100	91.76		ug/L		92	85 - 115	
Chromium	100	93.87		ug/L		94	85 - 115	
Copper	100	88.36		ug/L		88	85 - 115	
Lead	100	93.82		ug/L		94	85 - 115	
Nickel	100	89.73		ug/L		90	85 - 115	
Selenium	100	91.55		ug/L		92	85 - 115	
Silver	100	90.93		ug/L		91	85 - 115	
Thallium	100	94.07		ug/L		94	85 - 115	
Zinc	100	92.10		ug/L		92	85 - 115	

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 670-88580/1

Matrix: Water

Analysis Batch: 88580

MB MB

Result Qualifier RL MDL Unit Analyzed Dil Fac Analyte Prepared Oil & Grease (HEM) 5.0 05/01/24 09:40 <1.2 U 1.2 mg/L

Lab Sample ID: LCS 670-88580/2

Matrix: Water

Analysis Batch: 88580

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Oil & Grease (HEM)	40.0	35.30		mg/L		88	78 - 114	

Lab Sample ID: LCSD 670-88580/3

Matrix: Water

Analysis Batch: 88580									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Oil & Grease (HEM)	40.0	34.80		mg/L		87	78 - 114	1	18

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 670-88358/6

Matrix: Water

Analysis Ratch: 88358

Alialysis Datcii. 00000									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<10.0	U	10.0	10.0	mg/L			04/29/24 12:49	1

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5/31/2024 (Rev. 1)

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: LCS 670-88358/4 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 88358 Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit

Alkalinity 100 91.27 mg/L 91 80 - 120

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 670-88013/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88013

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed Total Dissolved Solids 5.00 5.00 mg/L <5.00 U 04/27/24 18:45

Lab Sample ID: LCS 670-88013/2 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 88013

LCS LCS %Rec Spike Added Result Qualifier Unit Limits Analyte D %Rec **Total Dissolved Solids** 1500 1498 mg/L 100 80 - 120

Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Client Sample ID: Method Blank Lab Sample ID: MB 670-88636/1 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88636

MB MB

RL Result Qualifier **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 2.00 <1.00 U 05/01/24 12:45 **Total Suspended Solids** 1.00 mg/L

Lab Sample ID: LCS 670-88636/2 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88636

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits **Total Suspended Solids** 100 80.00 mg/L 80 80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 670-88194/7 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 88194

MB MB Result Qualifier RI **MDL** Unit Analyte Prepared Analyzed Dil Fac Ammonia (as N) <0.0140 U 0.0200 0.0140 mg/L 04/29/24 14:49

Lab Sample ID: LCS 670-88194/3 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88194

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits Ammonia (as N) 0.500 0.4950 mg/L 99 90 - 110

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5/31/2024 (Rev. 1)

Prep Type: Total/NA

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-38838-1

Prep Type: Total/NA

Prep Type: Total/NA

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCSD 670-88194/6 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 88194

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 90 - 110 Ammonia (as N) 0.500 0.5040 mg/L 101 2 20

Lab Sample ID: 670-38838-1 MS Client Sample ID: Pond Discharge - Comp Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88194

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit D %Rec Limits Analyte <0.0140 U F1 0.500 Ammonia (as N) <0.0140 UF1 mg/L n 90 - 110

Method: 3500-Cr B-2011 - Chromium, Hexavalent

Lab Sample ID: MB 670-87962/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 87962

MB MB Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 04/26/24 17:00 Cr (VI) <10.0 U 20.0 10.0 ug/L

Lab Sample ID: MB 670-87962/7 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 87962

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Cr (VI) <10.0 U 20.0 10.0 ug/L 04/26/24 17:00

Lab Sample ID: LCS 670-87962/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 87962

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Cr (VI) 100 107.4 ug/L 107 80 - 120

Lab Sample ID: LCSD 670-87962/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 87962

LCSD LCSD RPD Spike %Rec Added RPD Analyte Result Qualifier Unit %Rec Limits Limit Cr (VI) 100 20 109.6 110 80 - 120 ug/L

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 670-88899/12-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89055 Prep Batch: 88899 MB MB Result Qualifier RL MDL Unit Prepared Analyzed 0.400 05/02/24 15:24 05/03/24 11:18 Nitrogen, Kjeldahl <0.180 U 0.180 mg/L

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Client: Roam Environmental LLC Job ID: 670-38838-1

Project/Site: TPDES Renewal

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 670-88899/11-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total/NA Analysis Batch: 89055** Prep Batch: 88899

Spike LCS LCS %Rec Result Qualifier Added Limits Analyte Unit %Rec Nitrogen, Kjeldahl 3.00 2.720 mg/L 91 90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 670-88899/12-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water Analysis Batch: 89056

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.100 0.0400 mg/L 05/02/24 15:24 05/03/24 11:18 <0.0400 U Total Phosphorus as P

Lab Sample ID: LCS 670-88899/11-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 89056** Prep Batch: 88899 LCS LCS Spike %Rec

Added Result Qualifier Limits Analyte Unit D %Rec Total Phosphorus as P 1.50 1.420 mg/L 95 90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 670-89305/1-A **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 89310

MB MB RL Result Qualifier **MDL** Unit Dil Fac **Analyte** Prepared Analyzed

20.0 05/06/24 11:00 05/06/24 11:30 Chemical Oxygen Demand <10.0 U 10.0 mg/L

Lab Sample ID: LCS 670-89305/4-A **Matrix: Water**

Analysis Batch: 89310

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Chemical Oxygen Demand 500 501.0 mg/L 100 90 - 110

Lab Sample ID: LCSD 670-89305/5-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 89310

Spike LCSD LCSD %Rec RPD Added Result Qualifier Unit %Rec Limits **RPD** Limit

Chemical Oxygen Demand 500 496.8 mg/L

Method: 4500 CI F-2011 - Chlorine Residual (DPD)

Lab Sample ID: MB 410-500499/1 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 500499

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.200 Residual Chlorine <0.0600 U 0.0600 mg/L 04/30/24 19:35

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Prep Batch: 88899

Prep Batch: 89305

Prep Type: Total/NA

Prep Batch: 89305

Prep Batch: 89305

Client Sample ID: Lab Control Sample

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-38838-1

Method: 4500 CI F-2011 - Chlorine Residual (DPD) (Continued)

Lab Sample ID: LCS 410-500499/2 Matrix: Water Analysis Batch: 500499				Clie	nt Saı	mple ID	: Lab Control Sample Prep Type: Total/NA
-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Residual Chlorine	1.00	0.9792		mg/L		98	95 - 105

Lab Sample ID: LCSD 410-500499/3			Client Sample ID: Lab Control Sample Du									
Matrix: Water							Prep Ty	pe: Tot	al/NA			
Analysis Batch: 500499												
	Spike	LCSD	LCSD				%Rec		RPD			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
Residual Chlorine	1.00	0.9996		mg/L		100	95 - 105	2	10			

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 670-87889/1

Matrix: Water Analysis Batch: 87889								pe: Total/NA
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
pH	 6.00	6.1		SU		101	99 - 101	

Method: 5210 B-2016 - CBOD, 5-Day

Lab Sample ID: LCS 670-88694/3

Lab Sample ID: MB 670-88694/2 Matrix: Water Analysis Batch: 88694						1	Client Sam	ple ID: Method Prep Type: To	
7 maryolo Batom 60004	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.00	U	2.00	2.00	mg/L			04/26/24 11:35	1
Lab Sample ID: SCB 670-88694/4 Matrix: Water Analysis Batch: 88694							Client Sam	ple ID: Method Prep Type: To	
Analysis Batom 60004	SCB	SCB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.00	Us	2.00	2.00	mg/L		-	04/26/24 11:43	1
Lab Sample ID: USB 670-88694/1 Matrix: Water							Client Sam	ple ID: Method	
Analysis Batch: 88694								Prep Type: To	Jlai/INA
Alialysis Datell. 00034	USB	USB							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	<2.00	U	2.00	2.00	mg/L		<u> </u>	04/26/24 11:32	1

Matrix: Water							Prep Typ	e: Total/NA
Analysis Batch: 88694								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Carbonaceous Biochemical	198	198.8		mg/L		100	85 - 115	
Oxygen Demand								

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

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Job ID: 670-38838-1

Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Method: 5210B-2016 - BOD, 5 Day

Lab Sample ID: MB 670-88694/22 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88694

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 04/26/24 14:21 **Biochemical Oxygen Demand** <2.00 U 2.00 2.00 mg/L

Lab Sample ID: SCB 670-88694/24 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 88694

SCB SCB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 2.00 04/26/24 14:26 Biochemical Oxygen Demand <2.00 Us 2.00 mg/L

Lab Sample ID: USB 670-88694/21 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88694

USB USB

Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac Biochemical Oxygen Demand <2.00 U 2.00 2.00 mg/L 04/26/24 14:18

Lab Sample ID: LCS 670-88694/23 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88694

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 198 209.3 Biochemical Oxygen Demand mg/L 106 85 - 115

Method: OIA-1677 - Cyanide, Available (Flow Injection)

Lab Sample ID: MB 410-503261/18 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 503261

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Cyanide, Available <5.00 U 6.00 5.00 ug/L 05/07/24 15:02

Lab Sample ID: MB 410-503261/35 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

MB MB Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 5.00 ug/L 6.00 Cyanide, Available <5.00 U 05/07/24 15:45

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 410-503261/33 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

Spike LCS LCS %Rec %Rec Analyte Added Result Qualifier Unit Limits Cyanide, Available 50.0 51.41 ug/L 103 82 - 132

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Job ID: 670-38838-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: OIA-1677 - Cyanide, Available (Flow Injection) (Continued)

Lab Sample ID: LCSD 410-503261/34 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

Analysis Baton. 000201										
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Cyanide, Available	50.0	51.75		ug/L		103	82 - 132	1	11	

Method: SM 5310C - TOC

Lab Sample ID: MB 670-88101/23 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 88101

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00	U	2.00	1.00	mg/L			04/26/24 19:24	1
TOC Result 1	<1.00	U	2.00	1.00	mg/L			04/26/24 19:24	1
TOC Result 2	<1.00	U	2.00	1.00	mg/L			04/26/24 19:24	1

Lab Sample ID: MB 670-88101/6 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 88101

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00	U	2.00	1.00	mg/L			04/26/24 15:06	1
TOC Result 1	<1.00	U	2.00	1.00	mg/L			04/26/24 15:06	1
TOC Result 2	<1.00	U	2.00	1.00	mg/L			04/26/24 15:06	1
	Total Organic Carbon TOC Result 1	Analyte Result Total Organic Carbon <1.00	Total Organic Carbon <1.00 U TOC Result 1 <1.00 U	Analyte Result Total Organic Carbon Qualifier Carbon RL UI CARDON TOC Result 1 <1.00 U	Analyte Result organic Carbon Qualifier organic Carbon RL organic Carbon organic C	Analyte Result Qualifier RL MDL Unit Total Organic Carbon <1.00	Analyte Result Total Organic Carbon Result 4.00 Qualifier U RL 2.00 MDL 1.00 mg/L mg/L D mg/L TOC Result 1 <1.00	Analyte Result Total Organic Carbon Qualifier RL Unit Unit Unit Unit MIDE D MDL MIDE Prepared TOC Result 1 <1.00	Analyte Result Qualifier RL MDL mg/L Unit D mg/L Prepared Analyzed Total Organic Carbon <1.00

Lab Sample ID: LCS 670-88101/21 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 88101

7 maryolo Batom oo ro	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Organic Carbon	9.98	10.60		mg/L		106	80 - 120	 _

Lab Sample ID: LCSD 670-88101/22 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88101

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Organic Carbon	9.98	10.49		mg/L		105	80 - 120	1	20

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QC Association Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-38838-1

HPLC/IC

Analy	veie	Batch:	87812
Allal	yolo	Dattii.	0/014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	300.0	
MB 670-87812/36	Method Blank	Total/NA	Water	300.0	
MB 670-87812/6	Method Blank	Total/NA	Water	300.0	
LCS 670-87812/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-87812/58	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 87813

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Bat
MB 670-87813/36	Method Blank	Total/NA	Water	300.0	
MB 670-87813/6	Method Blank	Total/NA	Water	300.0	
LCS 670-87813/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-87813/58	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 88152

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-88152/11	Method Blank	Total/NA	Water	300.0	
LCS 670-88152/9	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-88152/10	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 87920

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 670-87920/3-A	Method Blank	Total Recoverable	Water	200.8	
LCS 670-87920/1-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 88330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total Recoverable	Water	200.8	87920
MB 670-87920/3-A	Method Blank	Total Recoverable	Water	200.8	87920
LCS 670-87920/1-A	Lab Control Sample	Total Recoverable	Water	200.8	87920

Analysis Batch: 88585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total Recoverable	Water	200.8	87920

Prep Batch: 670521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-2	Pond Discharge - Grab	Total/NA	Water	1631E	
MB 400-670521/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-670521/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-670521/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
670-38838-2 MS	Pond Discharge - Grab	Total/NA	Water	1631E	
670-38838-2 MSD	Pond Discharge - Grab	Total/NA	Water	1631E	

Analysis Batch: 670612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-2	Pond Discharge - Grab	Total/NA	Water	1631E	670521

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QC Association Summary

Client: Roam Environmental LLC Job ID: 670-38838-1 Project/Site: TPDES Renewal

Metals (Continued)

Lab Sample ID MB 400-670521/3-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Water	Method 1631E	Prep Batch 670521
LCS 400-670521/4-A	Lab Control Sample	Total/NA	Water	1631E	670521
LCSD 400-670521/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	670521
670-38838-2 MS	Pond Discharge - Grab	Total/NA	Water	1631E	670521
670-38838-2 MSD	Pond Discharge - Grab	Total/NA	Water	1631E	670521

General Chemistry

Analysis Batch: 87889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	4500 H+ B-2011	
LCS 670-87889/1	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 87962

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method Prep Batch 3500-Cr B-2011
MB 670-87962/1	Method Blank	Total/NA	Water	3500-Cr B-2011
MB 670-87962/7	Method Blank	Total/NA	Water	3500-Cr B-2011
LCS 670-87962/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2011
LCSD 670-87962/5	Lab Control Sample Dup	Total/NA	Water	3500-Cr B-2011

Analysis Batch: 88013

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Water	Method 2540C - 2015	Prep Batch
MB 670-88013/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 670-88013/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 88101

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method SM 5310C	Prep Batch
MB 670-88101/23	Method Blank	Total/NA	Water	SM 5310C	
MB 670-88101/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 670-88101/21	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 670-88101/22	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 88194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	350.1	
MB 670-88194/7	Method Blank	Total/NA	Water	350.1	
LCS 670-88194/3	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-88194/6	Lab Control Sample Dup	Total/NA	Water	350.1	
670-38838-1 MS	Pond Discharge - Comp	Total/NA	Water	350.1	

Analysis Batch: 88211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	Nitrogen,Org	

Analysis Batch: 88358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	2320B-2011	
MB 670-88358/6	Method Blank	Total/NA	Water	2320B-2011	

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Client: Roam Environmental LLC Job ID: 670-38838-1 Project/Site: TPDES Renewal

General Chemistry (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 670-88358/4	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 88580

Lab Sample ID 670-38838-2	Client Sample ID Pond Discharge - Grab	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch
MB 670-88580/1	Method Blank	Total/NA	Water	1664A	
LCS 670-88580/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 670-88580/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 88636

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method 2540D-2015	Prep Batch
MB 670-88636/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 670-88636/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 88694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	5210 B-2016	
670-38838-1	Pond Discharge - Comp	Total/NA	Water	5210B-2016	
MB 670-88694/2	Method Blank	Total/NA	Water	5210 B-2016	
MB 670-88694/22	Method Blank	Total/NA	Water	5210B-2016	
SCB 670-88694/24	Method Blank	Total/NA	Water	5210B-2016	
SCB 670-88694/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 670-88694/1	Method Blank	Total/NA	Water	5210 B-2016	
USB 670-88694/21	Method Blank	Total/NA	Water	5210B-2016	
LCS 670-88694/23	Lab Control Sample	Total/NA	Water	5210B-2016	
LCS 670-88694/3	Lab Control Sample	Total/NA	Water	5210 B-2016	

Prep Batch: 88899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	365.2/365.3/365	
MB 670-88899/12-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 670-88899/11-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 89055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	351.2	88899
MB 670-88899/12-A	Method Blank	Total/NA	Water	351.2	88899
LCS 670-88899/11-A	Lab Control Sample	Total/NA	Water	351.2	88899

Analysis Batch: 89056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	365.4	88899
MB 670-88899/12-A	Method Blank	Total/NA	Water	365.4	88899
LCS 670-88899/11-A	Lab Control Sample	Total/NA	Water	365.4	88899

Prep Batch: 89305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	410.4	<u> </u>
MB 670-89305/1-A	Method Blank	Total/NA	Water	410.4	
LCS 670-89305/4-A	Lab Control Sample	Total/NA	Water	410.4	

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Client: Roam Environmental LLC Job ID: 670-38838-1 Project/Site: TPDES Renewal

General Chemistry (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 670-89305/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 89310

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method 410.4	Prep Batch 89305
MB 670-89305/1-A	Method Blank	Total/NA	Water	410.4	89305
LCS 670-89305/4-A	Lab Control Sample	Total/NA	Water	410.4	89305
LCSD 670-89305/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	89305

Analysis Batch: 90545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 500499

Lab Sample ID 670-38838-1	Client Sample ID Pond Discharge - Comp	Prep Type Total/NA	Matrix Water	Method 4500 CI F-2011	Prep Batch
MB 410-500499/1	Method Blank	Total/NA	Water	4500 CI F-2011	
LCS 410-500499/2	Lab Control Sample	Total/NA	Water	4500 CI F-2011	
LCSD 410-500499/3	Lab Control Sample Dup	Total/NA	Water	4500 CI F-2011	

Analysis Batch: 503261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-2	Pond Discharge - Grab	Total/NA	Water	OIA-1677	
MB 410-503261/18	Method Blank	Total/NA	Water	OIA-1677	
MB 410-503261/35	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-503261/33	Lab Control Sample	Total/NA	Water	OIA-1677	
LCSD 410-503261/34	Lab Control Sample Dup	Total/NA	Water	OIA-1677	

Analysis Batch: 504724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-38838-1	Pond Discharge - Comp	Total/NA	Water	360.1	

Job ID: 670-38838-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

FTOJECI/Site. TFDES Reflewal

Client Sample ID: Pond Discharge - Comp

Date Collected: 04/25/24 12:30 Date Received: 04/26/24 09:10 Lab Sample ID: 670-38838-1

Matrix: Water

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	300.0		5	87812	YGS	EET ORL	04/27/24 02:45
Total/NA	Analysis	300.0		5	87813	YGS	EET ORL	04/27/24 02:45
Total/NA	Analysis	300.0		20	88152	YGS	EET ORL	04/29/24 19:04
Total Recoverable	Prep	200.8			87920	JR	EET ORL	04/26/24 14:56
Total Recoverable	Analysis	200.8		1	88330	JA	EET ORL	04/29/24 14:52
Total Recoverable	Prep	200.8			87920	JR	EET ORL	04/26/24 14:56
Total Recoverable	Analysis	200.8		10	88585	JA	EET ORL	04/30/24 13:45
Total/NA	Analysis	2320B-2011		1	88358	IAD	EET ORL	04/29/24 13:43
Total/NA	Analysis	2540C - 2015		1	88013	KB	EET ORL	04/27/24 18:45
Total/NA	Analysis	2540D-2015		1	88636	DGS	EET ORL	05/01/24 12:45
Total/NA	Analysis	350.1		1	88194	VJW	EET ORL	04/29/24 14:50
Total/NA	Analysis	3500-Cr B-2011		2	87962	IAD	EET ORL	04/26/24 17:00
Total/NA	Prep	365.2/365.3/365			88899	DGS	EET ORL	05/02/24 15:24
Total/NA	Analysis	351.2		1	89055	LD	EET ORL	05/03/24 11:26
Total/NA	Analysis	360.1		1	504724	B6LN	ELLE	05/10/24 12:21
Total/NA	Prep	365.2/365.3/365			88899	DGS	EET ORL	05/02/24 15:24
Total/NA	Analysis	365.4		1	89056	LD	EET ORL	05/03/24 11:26
Total/NA	Prep	410.4			89305	VJW	EET ORL	05/06/24 11:00
Total/NA	Analysis	410.4		1	89310	VJW	EET ORL	05/06/24 11:30
Total/NA	Analysis	4500 CI F-2011		1	500499	DI9Q	ELLE	04/30/24 19:35
Total/NA	Analysis	4500 H+ B-2011		1	87889	IAD	EET ORL	04/26/24 11:20
Total/NA	Analysis	5210 B-2016		1	88694	ZM	EET ORL	04/26/24 14:06
Total/NA	Analysis	5210B-2016		1	88694	ZM	EET ORL	04/26/24 14:51
Total/NA	Analysis	Nitrogen,Org		1	88211	P1K	EET ORL	04/29/24 21:26
Total/NA	Analysis	SM 3500 CR B		1	90545	CHL	EET ORL	05/13/24 17:54
Total/NA	Analysis	SM 5310C		1	88101	IAD	EET ORL	04/26/24 20:19

Client Sample ID: Pond Discharge - Grab

Date Collected: 04/25/24 12:30

Date Received: 04/26/24 09:10

Lab Sample ID: 670-38838-2 Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Prep	1631E			670521	VLC	EET PEN	05/03/24 15:37 - 05/06/24 09:30) ¹
Total/NA	Analysis	1631E		1	670612	VLC	EET PEN	05/06/24 11:47	
Total/NA	Analysis	1664A		1	88580	BG	EET ORL	05/01/24 09:40	
Total/NA	Analysis	OIA-1677		1	503261	UJE2	ELLE	05/07/24 16:13	
This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.									

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Orlando

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Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-38838-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Oklahoma	State	2308	08-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-28-25
Washington	State	C1089	10-19-24

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
lowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Orlando

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Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-38838-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	05-23-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	05-14-24
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Method Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-38838-1

1631E Mercury, Low Level (CVAFS) EPA EET PEN 200.8 Metals (ICP/MS) EPA EET ORL 1664A HEM and SGT-HEM 1664A EET ORL 2320B-2011 Alkalinity, Total SM EET ORL 2540C-2015 Total Dissolved Solids (Dried at 180 °C) SM EET ORL 2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 2550D-Cr B-2011 Chromium, Hexavalent SM EET ORL 350D-Cr B-2011 Chromium, Hexavalent SM EET ORL 360.1 Oxygen, Dissolved EPA EET ORL<	Method	Method Description	Protocol	Laboratory
200.8 Metals (ICP/MS) EPA EET ORL 1864A HEM and SGT-HEM 1664A EET ORL 2320B-2011 Alkalinity, Total SM EET ORL 2320B-2015 Total Dissolved Solids (Dried at 180 °C) SM EET ORL 2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 2550.1 Nitrogen, Ammonia EPA EET ORL 350.0-Cr B-2011 Chromium, Hexavalent SM EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA EET ORL 360.4 Phosphorus, Total EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4510B-2016 BOD, 5 Day SM EET ORL 5210B-2016 BOD, 5 Day	300.0	Anions, Ion Chromatography	EPA	EET ORL
1664A HEM and SGT-HEM 1664A EET ORL 2320B-2011 Alkalinity, Total SM EET ORL 2540C - 2015 Total Dissolved Solids (Dried at 180 °C) SM EET ORL 2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 350.1 Nitrogen, Ammonia EPA EET ORL 350.1. Chromium, Hexavalent SM EET ORL 350.1. Nitrogen, Total Kjeldahl EPA EET ORL 351.2. Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA EET ORL 360.1 COD EPA EET ORL 360.1 Cholorine Residual (DPD) SM EET ORL 3610 B-Pa EET ORL SM EET ORL	1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
2320B-2011 Alkalinity, Total SM EET ORL 2540C - 2015 Total Dissolved Solids (Dried at 180 °C) SM EET ORL 2540D - 2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 350.1 Nitrogen, Ammonia EPA EET ORL 350.1 Chromium, Hexavalent SM EET ORL 350.1 Divingen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA EET ORL 360.0 F. Day SM EET ORL 3610 B. Dylitogen, Organic EPA EET ORL	200.8	Metals (ICP/MS)	EPA	EET ORL
2540C - 2015 Total Dissolved Solids (Dried at 180 °C) SM EET ORL 2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 350.1 Nitrogen, Ammonia EPA EET ORL 350.1 Chromium, Hexavalent SM EET ORL 350.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA ELLE 365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4500 H+ B-2011 pH SM EET ORL 4501 B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 BOD, 5 Day SM EET ORL Vitrogen, Organic EPA EET ORL SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL SM 5310C TOC SM EET ORL SM 5310C TOC	1664A	HEM and SGT-HEM	1664A	EET ORL
2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 350.1 Nitrogen, Ammonia EPA EET ORL 3500-Cr B-2011 Chromium, Hexavalent SM EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA ELLE 360.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM EET ORL 4500 H+ B-2011 PH SM EET ORL 4500 H+ B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL Vitrogen, Org Nitrogen, Organic EPA EET ORL SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 631E Preparation, Mercury, Low Level EPA EET ORL 635.2 Nitrogen, Total Kjeldahl EPA EET ORL	2320B-2011	Alkalinity, Total	SM	EET ORL
350.1 Nitrogen, Ammonia EPA EET ORL 3500-Cr B-2011 Chromium, Hexavalent SM EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA ELLE 365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM ELLE 4500 H+ B-2011 PH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 CBOD, 5 Day SM EET ORL 5010 A-1677 Oyanide, Available (Flow Injection) SM EET ORL 5010 A-1677 Cyanide, Available (Flow Injection) OI CORP ELLE 5010 SM SM EET ORL 5010 SM SM EET ORL 5010 SM TOC SM EET ORL 5010 SM Feparation, Mercury, Low Level EPA EET ORL 5010 SM Preparation, Total Recoverable Metals	2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET ORL
3500-Cr B-2011 Chromium, Hexavalent SM EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA ELLE 365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM ELLE 4500 H+ B-2011 pH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 BOD, 5 Day SM EET ORL Nitrogen, Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET ORL 200.8 Preparation, Total Recoverable Metals EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL <td>2540D-2015</td> <td>Total Suspended Solids (Dried at 103-105°C)</td> <td>SM</td> <td>EET ORL</td>	2540D-2015	Total Suspended Solids (Dried at 103-105°C)	SM	EET ORL
351.2 Nitrogen, Total Kjeldahl EPA EET ORL 360.1 Oxygen, Dissolved EPA ELLE 365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM ELLE 4500 H+ B-2011 pH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210B-2016 BOD, 5 Day SM EET ORL Nitrogen,Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET ORL 200.8 Preparation, Total Recoverable Metals EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL	350.1	Nitrogen, Ammonia	EPA	EET ORL
360.1 Oxygen, Dissolved EPA ELLE 365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM ELLE 4500 H+ B-2011 pH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210B-2016 BOD, 5 Day SM EET ORL Nitrogen,Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL	3500-Cr B-2011	Chromium, Hexavalent	SM	EET ORL
365.4 Phosphorus, Total EPA EET ORL 410.4 COD EPA EET ORL 4500 CI F-2011 Chlorine Residual (DPD) SM ELLE 4500 H+ B-2011 pH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 BOD, 5 Day SM EET ORL Nitrogen, Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL	351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
10.4 COD EPA EET ORL 1500 CI F-2011 Chlorine Residual (DPD) SM ELLE 1500 CI F-2011 PH SM EET ORL 15210 B-2016 CBOD, 5-Day SM EET ORL 15210B-2016 BOD, 5 Day SM EET ORL 15210B-2016 BOD, 5 Day SM EET ORL 15210B-2016 BOD, 5 Day SM EET ORL 15210B-2016 EPA EET ORL 15210B-2016	360.1	Oxygen, Dissolved	EPA	ELLE
SM	365.4	Phosphorus, Total	EPA	EET ORL
4500 H+ B-2011 pH SM EET ORL 5210 B-2016 CBOD, 5-Day SM EET ORL 5210B-2016 BOD, 5 Day SM EET ORL Nitrogen,Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL	410.4	COD	EPA	EET ORL
5210 B-2016 CBOD, 5-Day SM EET ORL 5210 B-2016 BOD, 5 Day SM EET ORL Nitrogen,Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 365.2/365.3/365 Phosphorus, Total EPA EET ORL	4500 CI F-2011	Chlorine Residual (DPD)	SM	ELLE
SZ10B-2016 BOD, 5 Day SM EET ORL Nitrogen, Organic EPA EET ORL OIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL SM 1531.2 Nitrogen, Total Kjeldahl EPA EET ORL SM 165.2/365.3/365 Phosphorus, Total E	4500 H+ B-2011	pH	SM	EET ORL
Nitrogen,Org Nitrogen, Organic EPA EET ORL DIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level EPA EET PEN 200.8 Preparation, Total Recoverable Metals EPA EET ORL 351.2 Nitrogen, Total Kjeldahl EPA EET ORL 365.2/365.3/365 Phosphorus, Total	5210 B-2016	CBOD, 5-Day	SM	EET ORL
CIA-1677 Cyanide, Available (Flow Injection) CI CORP ELLE SM 3500 CR B Chromium, Trivalent SM EET ORL SM 5310C TOC SM EET ORL 1631E Preparation, Mercury, Low Level 200.8 Preparation, Total Recoverable Metals SH EET ORL 201.0 EPA EET ORL 201.	5210B-2016	BOD, 5 Day	SM	EET ORL
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1631EPreparation, Mercury, Low LevelEPAEET PEN200.8Preparation, Total Recoverable MetalsEPAEET ORL351.2Nitrogen, Total KjeldahlEPAEET ORL365.2/365.3/365Phosphorus, TotalEPAEET ORL	SM 3500 CR B	Chromium, Trivalent	SM	EET ORL
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365.2/365.3/365 Phosphorus, Total EPA EET ORL	200.8	Preparation, Total Recoverable Metals	EPA	EET ORL
, ,	351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
110.4 COD EPA EET ORL	365.2/365.3/365	Phosphorus, Total	EPA	EET ORL
	410.4	COD	EPA	EET ORL

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Orlando

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Sample Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-38838-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-38838-1	Pond Discharge - Comp	Water	04/25/24 12:30	04/26/24 09:10
670-38838-2	Pond Discharge - Grab	Water	04/25/24 12:30	04/26/24 09:10

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481 Newburyport Avenue

Altamonte Springs, FL 32701

Chain of Custody Record



lient Information	Sampler:	e A	V.1.1	Lab P Buile	M: s, Joh	าท						Carrie	er Trac	king N	o(s):			COC No: 670-18561-7577.1
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481 Newburyport Avenue Altamonte Springs. FL 3270

Chain of Custody Record

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ient Information	Sampler	. 0 1	111		PM: iles, J	John					С	arrier Tr	acking No(s):		COC No: 670-18561-7577.2
nt Contact:	Phone:	20-	7495 PWSID:	E-M	fail:						s	tate of C	rigin:			Page:
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481 Newburyport Avenue

Altamonte Springs, FL 32701

Chain of Custody Record



: eurofins

Phone: 407-339-5984 Fax: 407-260-6110																					
Client Information (Sub Contract Lab)	Sampler:				les, .	John							Carri	er Track	ing No	o(s):			COC No: 670-28129.1		
Client Contact: Shipping/Receiving	Phone:			E-M Joh	_	iles(@et.	eurof	insu	s.com	1		State	of Orig ida	in:				Page: Page 1 of 1		
Company: Eurofins Lancaster Laboratories Environm					Acc	LAF	tions - Te	Requi	ired (S	See no	le):		•						Job #: 670-38838-1		
Address:	Due Date Requeste	ed:			\top														Preservation Cod	les:	
2425 New Holland Pike, ,	5/10/2024									An	alysi	s Re	ques	ted							
City: Lancaster	TAT Requested (da	iys):																			
State, Zip: PA, 17601												ł									
Phone: 717-656-2300(Tel)	PO #:				٦	П															
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Note: Since laboratory accreditations are subject to change, Eurofins Envidoes not currently maintain accreditation in the State of Origin listed abovitatus should be brought to Eurofins Environment Testing Southeast, LLC	e for analysis/tests/matrix bei	ing analyzed, t	the samples mu	st be shipped	back	to the	Euro	fins Er	nviron	ment T	esting	Southe	ast, LLC	labora	tory or	other in	structio	ns wi	ill be provided. Any o	changes to accred	
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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-38838-1

Login Number: 38838 List Source: Eurofins Orlando

List Number: 1

Creator: Lavardera, Angelina

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; individual samples not designated for specific analyses
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-38838-1

Login Number: 38838 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Number: 2 List Creation: 04/27/24 05:38 PM

Creator: Foreman, Kai

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-38838-1

List Source: Eurofins Pensacola
List Number: 3
List Creation: 05/01/24 02:50 PM

Creator: Perez, Trina M

Oreator. I erez, Irinia III		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

N/A

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Residual Chlorine Checked.

ANALYTICAL REPORT

PREPARED FOR

Attn: Blair Shackford Roam Environmental LLC 3204 Hogan Ct Edmond, Oklahoma 73013

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JOB DESCRIPTION

TPDES Renewal

JOB NUMBER

670-39186-1

Eurofins Orlando 481 Newburyport Avenue Altamonte Springs FL 32701



Job Notes

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

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

Authorization

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Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com (561)558-4549

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Client: Roam Environmental LLC Project/Site: TPDES Renewal

Laboratory Job ID: 670-39186-1

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Definitions/Glossary

Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

Qualifiers

HPLC/IC

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

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

U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier **Qualifier Description**

^+ Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

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

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, low biased. h Result Detected in the Unseeded Control blank (USB).

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

s Seeded Control Blank (SCB) Recovery Low

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD 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)

NFG 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

Page 4 of 36

Case Narrative

Client: Roam Environmental LLC

Project: TPDES Renewal

Job ID: 670-39186-1 Eurofins Orlando

Job Narrative 670-39186-1

REVISION

The report being provided is a revision of the original report sent on 5/20/2024. The report (revision 1) is being revised due to Revised report to correct the units.

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

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

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

Receipt

The samples were received on 5/3/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

HPLC/IC

Method 300_ORGFMS: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 670-88979 recovered outside control limits for the following analytes: Nitrite as N. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals

Method 1631E: The following sample was diluted due to the nature of the sample matrix: Pond Discharge (670-39186-2). Elevated reporting limits (RLs) are provided. The sample appears to be dirty.

Method 200.8_CWA - Total Recoverable: The continuing calibration verification (CCV) associated with batch 670-89193 exhibited % difference of > 30% for the following analyte(s) Magnesium; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

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

General Chemistry

Method 3500_CR_B: The following sample(s) was preserved in hold extending analysis holding time. Preservation buffer added by laboratory: Pond Discharge (670-39186-1) and (670-39130-A-9).

Method SM5210B_CBODCal: Internal comments.

Method SM5210B_CBODCal: The glucose-glutamic acid standard (LCS) recovered outside the recovery limits specified in the method in batch 670-89826. The method holding time had expired, therefore the analysis was not repeated. The data was qualified and reported.

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

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Job ID: 670-39186-1

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Job ID: 670-39186-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39186-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac [Method	Prep Type
Fluoride	1.45		0.400	0.200	mg/L		300.0	Total/NA
Nitrate as N	0.260	J	0.400	0.200	mg/L	1	300.0	Total/NA
Chloride	62.8		0.400	0.200	mg/L	1	300.0	Total/NA
Sulfate	277		5.00	2.50	mg/L	5	300.0	Total/NA
Aluminum	862		44.4	3.78	ug/L	1	200.8	Total
								Recoverab
Arsenic	5.97		4.44	0.433	ug/L	1	200.8	Total
								Recoverab
Barium	196		4.44	0.409	ug/L	1	200.8	Total
Chromium	3.53		2.22	0.431	ua/l	1	200.8	Recoverab Total
Cilioniani	0.00		2.22	0.401	ug/L	•	200.0	Recoverab
Copper	17.5		2.22	0.714	ug/L	1	200.8	Total
•								Recoverab
Lead	1.92	J	2.22	0.270	ug/L	1	200.8	Total
		_						Recoverab
Nickel	2.33	J	4.44	1.02	ug/L	1	200.8	Total
Selenium	2.30	1	4.44	0.537	ua/l	1	200.8	Recoverab Total
Seleman	2.30	J	4.44	0.557	ug/L	'	200.0	Recoverab
Zinc	47.7		4.44	1.43	ug/L	1	200.8	Total
					3			Recoverab
Iron	0.945		0.0278	0.0137	mg/L	1	200.8	Total
								Recoverab
Manganese	0.0342		0.00111	0.00110	mg/L	1	200.8	Total
Magnesium	44.6		1.11	0.0006			200.0	Recoverab
Magnesium	41.6		1.11	0.0826	mg/L	10	200.8	Total Recoverab
Alkalinity	112		10.0	10.0	mg/L	1	2320B-2011	Total/NA
Total Dissolved Solids	568		5.00		mg/L	1	2540C - 2015	Total/NA
Total Suspended Solids	62.7		6.67		mg/L		2540D-2015	Total/NA
Ammonia (as N)	0.0360		0.0200	0.0140	J	1	350.1	Total/NA
Nitrogen, Kjeldahl	0.689		0.400	0.180	ū	1	351.2	Total/NA
Oxygen, Dissolved	3.94		0.400	0.400			360.1	Total/NA
Total Phosphorus as P	0.332		0.100	0.0400	Ū	1	365.4	Total/NA
Chemical Oxygen Demand	49.7		20.0		mg/L	1	410.4	Total/NA
pH		HF	0.02	0.01			4500 H+ B-2011	Total/NA
Temperature	21.9		0.1		Deg. C	1	4500 H+ B-2011	Total/NA
Carbonaceous Biochemical Oxygen	6.08		2.00		mg/L	1	5210 B-2016	Total/NA
Demand	0.00	Б -	2.00	2.00	mg/L	•	32 10 B-2010	TOTAL/TVA
Biochemical Oxygen Demand	4.80		2.00	2.00	mg/L	1	5210B-2016	Total/NA
Nitrogen, Organic	0.653		0.400	0.200	-	1	Nitrogen,Org	Total/NA
Total Organic Carbon	4.38		2.00		mg/L	1	SM 5310C	Total/NA
TOC Result 1	4.43		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 2	4.32		2.00		mg/L	1	SM 5310C	Total/NA

Client Sample ID: Pond Discharge

Lab	Sample	ID:	670-39186-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Mercury	0.0214	0.00250	0.00100 ug/L	1 1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

Lab Sample ID: 670-39186-1 **Client Sample ID: Pond Discharge**

Date Collected: 05/02/24 12:30 **Matrix: Water** Date Received: 05/03/24 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.45		0.400	0.200	mg/L			05/03/24 16:42	1
Nitrate as N	0.260	J	0.400	0.200	mg/L			05/03/24 16:42	1
Chloride	62.8		0.400	0.200	mg/L			05/03/24 16:42	1
Nitrite as N	<0.200	U	0.400	0.200	mg/L			05/03/24 16:42	1
Sulfate	277		5.00	2.50	mg/L			05/06/24 13:28	5
Method: EPA 200.8 - N	•			MDI	1124	_	D	Anabasad	D'' 5-
	•	tal Recover	able RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	•			MDL 3.78		<u>D</u>	Prepared 05/06/24 09:23		Dil Fac
Analyte Aluminum	Result	Qualifier	RL		ug/L	<u>D</u>	05/06/24 09:23		Dil Fac
Analyte Aluminum Antimony	Result 862	Qualifier	RL 44.4	3.78	ug/L ug/L	<u>D</u>	05/06/24 09:23 05/06/24 09:23	05/06/24 22:26	Dil Fac
Analyte Aluminum Antimony Arsenic	Result 862 <0.452	Qualifier	RL 44.4 2.22	3.78 0.452	ug/L ug/L ug/L	<u>D</u>	05/06/24 09:23 05/06/24 09:23 05/06/24 09:23	05/06/24 22:26 05/06/24 22:26	Dil Fac
Method: EPA 200.8 - N Analyte Aluminum Antimony Arsenic Barium Beryllium	Result 862 <0.452 5.97	Qualifier U	RL 44.4 2.22 4.44	3.78 0.452 0.433	ug/L ug/L ug/L ug/L	<u>D</u>	05/06/24 09:23 05/06/24 09:23 05/06/24 09:23 05/06/24 09:23	05/06/24 22:26 05/06/24 22:26 05/06/24 22:26	Dil Fac

Antimony	< 0.452	U	2.22	0.452	ug/L	05/06/24 09:23	05/06/24 22:26	1
Arsenic	5.97		4.44	0.433	ug/L	05/06/24 09:23	05/06/24 22:26	1
Barium	196		4.44	0.409	ug/L	05/06/24 09:23	05/06/24 22:26	1
Beryllium	< 0.356	U	1.11	0.356	ug/L	05/06/24 09:23	05/06/24 22:26	1
Cadmium	<0.272	U	1.11	0.272	ug/L	05/06/24 09:23	05/06/24 22:26	1
Chromium	3.53		2.22	0.431	ug/L	05/06/24 09:23	05/06/24 22:26	1
Copper	17.5		2.22	0.714	ug/L	05/06/24 09:23	05/06/24 22:26	1
Lead	1.92	J	2.22	0.270	ug/L	05/06/24 09:23	05/06/24 22:26	1
Nickel	2.33	J	4.44	1.02	ug/L	05/06/24 09:23	05/06/24 22:26	1
Selenium	2.30	J	4.44	0.537	ug/L	05/06/24 09:23	05/06/24 22:26	1
Silver	<0.0411	U	1.11	0.0411	ug/L	05/06/24 09:23	05/06/24 22:26	1
Thallium	<0.388	U	1.11	0.388	ug/L	05/06/24 09:23	05/06/24 22:26	1
Zinc	47.7		4.44	1.43	ug/L	05/06/24 09:23	05/06/24 22:26	1
Iron	0.945		0.0278	0.0137	mg/L	05/06/24 09:23	05/06/24 22:26	1
Manganese	0.0342	0	0.00111 0	.00110	mg/L	05/06/24 09:23	05/06/24 22:26	1
Magnesium	41.6		1.11	0.0826	mg/L	05/06/24 09:23	05/07/24 12:14	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B-2011)	112		10.0	10.0	mg/L			05/07/24 16:17	1
Total Dissolved Solids (SM 2540C - 2015)	568		5.00	5.00	mg/L			05/03/24 16:43	1
Total Suspended Solids (SM 2540D-2015)	62.7		6.67	3.33	mg/L			05/08/24 09:35	1
Ammonia (as N) (EPA 350.1)	0.0360		0.0200	0.0140	mg/L			05/14/24 22:33	1
Cr (VI) (SM 3500-Cr B-2011)	<10.0	U	20.0	10.0	ug/L			05/03/24 16:00	1
Nitrogen, Kjeldahl (EPA 351.2)	0.689		0.400	0.180	mg/L		05/07/24 18:04	05/09/24 10:58	1
Oxygen, Dissolved (EPA 360.1)	3.94	HF	0.400	0.400	mg/L			05/10/24 12:21	1
Total Phosphorus as P (EPA 365.4)	0.332		0.100	0.0400	mg/L		05/07/24 18:04	05/09/24 10:58	1
Chemical Oxygen Demand (EPA 410.4)	49.7		20.0	10.0	mg/L		05/13/24 12:30	05/13/24 13:30	1
Residual Chlorine (SM 4500 CI F-2011)	<0.0600	U HF	0.200	0.0600	mg/L			05/18/24 08:19	1
pH (SM 4500 H+ B-2011)	7.3	HF	0.02	0.01	SU			05/03/24 15:15	1
Temperature (SM 4500 H+ B-2011)	21.9	HF	0.1	0.1	Deg. C			05/03/24 15:15	1
Carbonaceous Biochemical Oxygen Demand (SM 5210 B-2016)	6.08	b *-	2.00	2.00	mg/L			05/03/24 17:34	1
Biochemical Oxygen Demand (SM 5210B-2016)	4.80		2.00	2.00	mg/L			05/03/24 13:43	1
Nitrogen, Organic (EPA Nitrogen,Org)	0.653		0.400	0.200	mg/L			05/09/24 17:09	1
Cr (III) (SM 3500 CR B)	<10.0	U	20.0	10.0	ug/L			05/13/24 17:54	1
Total Organic Carbon (SM 5310C)	4.38		2.00	1.00	mg/L			05/06/24 17:38	1

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-39186-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge Lab Sample ID: 670-39186-1

Date Collected: 05/02/24 12:30 **Matrix: Water**

Date Received: 05/03/24 09:30 Conoral Chamistry (Continued)

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1 (SM 5310C)	4.43		2.00	1.00	mg/L			05/06/24 17:38	1
TOC Result 2 (SM 5310C)	4.32		2.00	1.00	mg/L			05/06/24 17:38	1

Client Sample ID: Pond Discharge Lab Sample ID: 670-39186-2

Date Collected: 05/02/24 12:30 Date Received: 05/03/24 09:30

Method: EPA 1631E - Mercury,	Low Level (CVAFS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0214	0.00250	0.00100	ug/L		05/07/24 16:25	05/14/24 12:02	1
-								

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM) (1664A)	<1.2	U	5.0	1.2	mg/L			05/14/24 09:40	1
Cyanide, Available (OI CORP OIA-1677)	<5.00	U	6.00	5.00	ug/L			05/07/24 15:05	1

Matrix: Water

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39186-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-88979/37

Matrix: Water

Analysis Batch: 88979

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

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Prepared** 0.200 mg/L Nitrate as N <0.200 U 0.400 05/03/24 20:05 Nitrite as N <0.200 U 0.400 0.200 mg/L 05/03/24 20:05

Lab Sample ID: MB 670-88979/6

Matrix: Water

Analysis Batch: 88979

MB MB

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Nitrate as N <0.200 U 0.400 0.200 mg/L 05/03/24 11:20 Nitrite as N <0.200 U 0.400 0.200 mg/L 05/03/24 11:20

Lab Sample ID: LCS 670-88979/35 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 88979

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	 2.00	2.000		mg/L		100	90 - 110	
Nitrite as N	2.00	2.219	*+	mg/L		111	90 - 110	

Lab Sample ID: LCS 670-88979/4

Matrix: Water

Analysis Batch: 88979

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	2.00	1.987		mg/L		99	90 - 110	
Nitrite as N	2 00	2.165		ma/l		108	90 - 110	

Lab Sample ID: LCSD 670-88979/36

Matrix: Water

Analysis Batch: 88979										
-	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate as N	2.00	1.992		mg/L		100	90 - 110	0	20	
Nitrite as N	2.00	2.210	*+	mg/L		111	90 - 110	0	20	

Analysis Batch: 88979

Nitrite as N	2.00	2.210 *+	mg/L	111	90 - 110	0	20
Lab Sample ID: LCSD 670-88979/5			Client Sam	ole ID: Lab	Control Sa	ample l	Dup
Matrix: Water					Pren Tyne	· Total	I/N A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	2.00	1.982		mg/L		99	90 - 110	0	20
Nitrite as N	2.00	2.166		mg/L		108	90 - 110	0	20

Lab Sample ID: MB 670-88980/37

Matrix: Water

Analysis Batch: 88980

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L		 	05/03/24 20:05	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/03/24 20:05	1

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Prep Type: Total/NA

Client Sample ID: Method Blank

Client: Roam Environmental LLC Job ID: 670-39186-1

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 670-88980/37

Matrix: Water

Analyte

Sulfate

Analysis Batch: 88980

Client Sample ID: Method Blank

Prep Type: Total/NA

05/03/24 20:05

Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac

Client Sample ID: Method Blank Lab Sample ID: MB 670-88980/6 Prep Type: Total/NA

1.00

0.500 mg/L

Matrix: Water

Analysis Batch: 88980

MB MB

<0.500 U

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/03/24 11:20	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/03/24 11:20	1
Sulfate	<0.500	U	1.00	0.500	mg/L			05/03/24 11:20	1

Lab Sample ID: LCS 670-88980/35 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 88980

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Fluoride 2.00 90 - 110 2.148 mg/L 107 Chloride 4.00 3.975 mg/L 99 90 - 110 Sulfate 10.0 10.20 mg/L 90 - 110 102

Lab Sample ID: LCS 670-88980/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 88980

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Fluoride	 2.00	2.173		mg/L		109	90 - 110	
Chloride	4.00	3.959		mg/L		99	90 - 110	
Sulfate	10.0	10.17		mg/L		102	90 - 110	

Lab Sample ID: LCSD 670-88980/36 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88980

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Fluoride	 2.00	2.171		mg/L		109	90 - 110	1	20	
Chloride	4.00	3.969		mg/L		99	90 - 110	0	20	
Sulfate	10.0	10.15		mg/L		102	90 - 110	0	20	

Lab Sample ID: LCSD 670-88980/5 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 88980

		Spike	LCSD	LCSD				%Rec		RPD
Ana	alyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluc	oride	 2.00	2.194		mg/L		110	90 - 110	1	20
Chlo	oride	4.00	3.955		mg/L		99	90 - 110	0	20
Sulf	ate	10.0	10.12		mg/L		101	90 - 110	1	20

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5/31/2024 (Rev. 1)

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39186-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 670-89184/6

Matrix: Water

Analysis Batch: 89184

Analyte

Nitrate as N

Nitrite as N

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

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac D **Prepared** <0.200 U 0.400 0.200 mg/L 05/06/24 11:47 <0.200 U 0.400 0.200 mg/L 05/06/24 11:47

Lab Sample ID: LCS 670-89184/32

Matrix: Water

Analysis Batch: 89184

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 90 - 110 Nitrate as N 4.00 3.769 mg/L 94 Nitrite as N 4.00 3.810 90 - 110 mg/L 95

Lab Sample ID: LCSD 670-89184/33

Matrix: Water

Analysis Batch: 89184

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	4.00	3.755		mg/L		94	90 - 110	0	20
Nitrite as N	4.00	3.786		mg/L		95	90 - 110	1	20

Lab Sample ID: MB 670-89185/6

Matrix: Water

Analysis Batch: 89185

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

Client Sample ID: Lab Control Sample

90 - 110

94

Client Sample ID: Lab Control Sample Dup

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Fluoride <0.200 U 0.400 0.200 mg/L 05/06/24 11:47 Chloride <0.200 U 0.400 0.200 mg/L 05/06/24 11:47 Sulfate <0.500 U 1.00 0.500 mg/L 05/06/24 11:47

Lab Sample ID: LCS 670-89185/32

Matrix: Water

Sulfate

Analysis Batch: 89185

Alialysis Dalcii. 03100								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Fluoride	4.00	3.891		mg/L		97	90 - 110	
Chloride	4.00	3.947		mg/L		99	90 - 110	

3.762

mg/L

4.00

Lab Sample ID: LCSD 670-89185/33

Matrix: Water

Analysis Batch: 89185

_	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluoride	4.00	3.954		mg/L		99	90 - 110	2	20
Chloride	4.00	4.209		mg/L		105	90 - 110	6	20
Sulfate	4.00	3.721		mg/L		93	90 - 110	1	20

Job ID: 670-39186-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-671409/3-A

Matrix: Water

Analysis Batch: 671473

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 671409

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.000200 ug/L 05/13/24 16:00 05/14/24 10:15 Mercury <0.000200 U 0.000500

Lab Sample ID: LCS 400-671409/4-A

Matrix: Water

Analysis Batch: 671473

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

Prep Batch: 671409

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 0.00500 79 - 121 Mercury 0.004554 91

Lab Sample ID: LCSD 400-671409/5-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 671473

Prep Type: Total/NA

Prep Batch: 671409

Spike LCSD LCSD %Rec **RPD** RPD Analyte Added Result Qualifier Unit Limits Limit D %Rec Mercury 0.00500 0.004565 79 - 121 ug/L

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 670-89193/3-A

Matrix: Water

Client Sample ID: Method Blank Prep Type: Total Recoverable

Analysis Batch: 89469								Prep Batch:	: 89193
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<3.40	U	40.0	3.40	ug/L		05/06/24 09:23	05/06/24 22:03	1
Antimony	<0.407	U	2.00	0.407	ug/L		05/06/24 09:23	05/06/24 22:03	1
Arsenic	< 0.390	U	4.00	0.390	ug/L		05/06/24 09:23	05/06/24 22:03	1
Barium	<0.368	U	4.00	0.368	ug/L		05/06/24 09:23	05/06/24 22:03	1
Beryllium	<0.320	U	1.00	0.320	ug/L		05/06/24 09:23	05/06/24 22:03	1
Cadmium	<0.245	U	1.00	0.245	ug/L		05/06/24 09:23	05/06/24 22:03	1
Chromium	<0.388	U	2.00	0.388	ug/L		05/06/24 09:23	05/06/24 22:03	1
Copper	< 0.643	U	2.00	0.643	ug/L		05/06/24 09:23	05/06/24 22:03	1
Lead	<0.243	U	2.00	0.243	ug/L		05/06/24 09:23	05/06/24 22:03	1
Nickel	<0.915	U	4.00	0.915	ug/L		05/06/24 09:23	05/06/24 22:03	1
Selenium	< 0.483	U	4.00	0.483	ug/L		05/06/24 09:23	05/06/24 22:03	1
Silver	< 0.0370	U	1.00	0.0370	ug/L		05/06/24 09:23	05/06/24 22:03	1
Thallium	<0.349	U	1.00	0.349	ug/L		05/06/24 09:23	05/06/24 22:03	1
Zinc	<1.29	U	4.00	1.29	ug/L		05/06/24 09:23	05/06/24 22:03	1
Iron	<0.0124	U	0.0250	0.0124	mg/L		05/06/24 09:23	05/06/24 22:03	1
Manganese	<0.000987	U	0.00100	0.000987	mg/L		05/06/24 09:23	05/06/24 22:03	1
Magnesium	< 0.00743	U ^+	0.100	0.00743	mg/L		05/06/24 09:23	05/06/24 22:03	1

Lab Sample ID: LCS 670-89193/1-A

Matrix: Water

Analysis Batch: 89469

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 89193

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	4891		ug/L		98	85 - 115	
Antimony	100	88.19		ug/L		88	85 - 115	
Arsenic	100	99.56		ug/L		100	85 - 115	
Barium	100	98.56		ug/L		99	85 - 115	

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Client: Roam Environmental LLC Job ID: 670-39186-1

Project/Site: TPDES Renewal

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 670-89193/1-A **Matrix: Water**

Analysis Batch: 89469

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 89193

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Beryllium	100	96.83		ug/L		97	85 - 115	
Cadmium	100	91.42		ug/L		91	85 - 115	
Chromium	100	92.33		ug/L		92	85 - 115	
Copper	100	90.37		ug/L		90	85 - 115	
Lead	100	96.76		ug/L		97	85 - 115	
Nickel	100	94.77		ug/L		95	85 - 115	
Selenium	100	91.98		ug/L		92	85 - 115	
Silver	100	96.08		ug/L		96	85 - 115	
Thallium	100	95.24		ug/L		95	85 - 115	
Zinc	100	98.37		ug/L		98	85 - 115	

Lab Sample ID: LCSD 670-89193/2-A

Matrix: Water

Client Sample ID: Lab Control Sample Dup Prep Type: Total Recoverable

Analysis Batch: 89469							Prep E	Batch: 8	39193
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	5000	4842		ug/L		97	85 - 115	1	20
Antimony	100	87.95		ug/L		88	85 - 115	0	20
Arsenic	100	98.49		ug/L		98	85 - 115	1	20
Barium	100	97.84		ug/L		98	85 - 115	1	20
Beryllium	100	96.79		ug/L		97	85 - 115	0	20
Cadmium	100	91.68		ug/L		92	85 - 115	0	20
Chromium	100	95.19		ug/L		95	85 - 115	3	20
Copper	100	88.58		ug/L		89	85 - 115	2	20
Lead	100	96.75		ug/L		97	85 - 115	0	20
Nickel	100	96.90		ug/L		97	85 - 115	2	20
Selenium	100	91.46		ug/L		91	85 - 115	1	20
Silver	100	95.98		ug/L		96	85 - 115	0	20
Thallium	100	94.50		ug/L		94	85 - 115	1	20
Zinc	100	100.7		ug/L		101	85 - 115	2	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 670-90641/1

Matrix: Water

Analysis Batch: 90641

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Oil & Grease (HEM) <1.2 U 5.0 1.2 mg/L 05/14/24 09:40

Lab Sample ID: LCS 670-90641/2

Matrix: Water

Analysis Batch: 90641								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Oil & Grease (HEM)	40.0	35.60		mg/L		89	78 - 114	

Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 670-90641/3 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 90641

RPD Spike LCSD LCSD %Rec Result Qualifier Added D %Rec Limits RPD Limit Analyte Unit Oil & Grease (HEM) 40.0 33.70 mg/L 84 78 - 114 5 18

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 670-89686/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89686

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 10.0 <10.0 U 10.0 mg/L 05/07/24 15:31 Alkalinity

Lab Sample ID: LCS 670-89686/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89686

LCS LCS %Rec Spike Added Result Qualifier Limits **Analyte** Unit %Rec Alkalinity 100 87.07 mg/L 87 80 - 120

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Client Sample ID: Method Blank Lab Sample ID: MB 670-89086/1 **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 89086

MB MB

RL Result Qualifier **MDL** Unit Dil Fac **Analyte** Prepared Analyzed Total Dissolved Solids <5.00 U 5.00 05/03/24 16:43 5.00 mg/L

Lab Sample ID: LCS 670-89086/2 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 89086

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits **Total Dissolved Solids** 1500 1478 mg/L 80 - 120

Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 670-89684/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 89684

MB MB Result Qualifier RI **MDL** Unit Analyte Prepared Analyzed Dil Fac Total Suspended Solids <1.00 U 2.00 1.00 mg/L 05/08/24 09:35

Lab Sample ID: LCS 670-89684/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89684

%Rec LCS LCS Spike Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 87.00 mg/L 87 80 - 120

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Prep Type: Total/NA

Prep Type: Total/NA

%Rec

Job ID: 670-39186-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 670-90058/16

Matrix: Water

Analysis Batch: 90058

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.0200 05/09/24 16:00 Ammonia (as N) <0.0140 U 0.0140 mg/L

Lab Sample ID: LCS 670-90058/12

Matrix: Water

Analysis Batch: 90058

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 0.500 90 - 110 Ammonia (as N) 0.5000 mg/L 100

Lab Sample ID: LCSD 670-90058/15

Matrix: Water

Analysis Batch: 90058

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Analyte Unit %Rec Limit Ammonia (as N) 0.500 0.5080 102 mg/L

Lab Sample ID: MB 670-90819/7

Matrix: Water

Analysis Batch: 90819

MB MB

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac <0.0140 U 0.0200 0.0140 mg/L 05/14/24 22:26 Ammonia (as N)

Lab Sample ID: LCS 670-90819/3

Matrix: Water

Analysis Batch: 90819

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits 0.500 0.4790 96 90 - 110 Ammonia (as N) mg/L

Lab Sample ID: LCSD 670-90819/6

Matrix: Water

Analysis Batch: 90819

LCSD LCSD Spike %Rec **RPD** Added **RPD** Limit Analyte Result Qualifier Unit D %Rec Limits 0.500 0.4950 Ammonia (as N) mg/L 90 - 11020

Method: 3500-Cr B-2011 - Chromium, Hexavalent

Lab Sample ID: MB 670-89089/1

Matrix: Water

Analysis Batch: 89089

MR MR

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Cr (VI) <10.0 U 20.0 05/03/24 16:00 10.0 ug/L

Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

Method: 3500-Cr B-2011 - Chromium, Hexavalent (Continued)

Lab Sample ID: MB 670-89089/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 89089

MB MB

Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 20.0 05/03/24 16:00 Cr (VI) <10.0 U 10.0 ug/L

Lab Sample ID: LCS 670-89089/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 89089

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 100 Cr (VI) 115.1 ug/L 115 80 - 120

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 670-89575/2-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90003

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 0.400 05/07/24 18:04 05/09/24 10:51 Nitrogen, Kjeldahl <0.180 U 0.180 mg/L

Lab Sample ID: LCS 670-89575/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90003

Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 3.00 3.100 103 90 - 110 mg/L

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 670-89575/2-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 90004

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total Phosphorus as P <0.0400 U 0.100 0.0400 mg/L 05/07/24 18:04 05/09/24 10:51

Lab Sample ID: LCS 670-89575/1-A

Analysis Batch: 90004

Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Prep Batch: 89575

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Total Phosphorus as P 1.50 1.640 mg/L 109 90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 670-90463/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90468

MB MB

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 20.0 Chemical Oxygen Demand <10.0 U 10.0 mg/L 05/13/24 12:30 05/13/24 13:30

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Prep Batch: 90463

Prep Type: Total/NA

Prep Batch: 89575

Prep Batch: 89575

Prep Batch: 89575

9186-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39186-1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 670-90463/4-A			Client Sample ID: Lab Control Sample
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 90468			Prep Batch: 90463
	Snike	LCS LCS	%Rec

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chemical Oxygen Demand	500	503.2		mg/L		101	90 - 110	

Lab Sample ID: LCSD 670-90463/5-A	Client Sample ID: Lab Control Sample Dup									
Matrix: Water							Prep Ty	pe: Tot	al/NA	
Analysis Batch: 90468						Prep E	atch: 9	90463		
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chemical Oxygen Demand	500	501.0		mg/L		100	90 - 110	0	20	

Lab Sample ID. 070-39100	D Sample ID. 070-39100-1 WIS					Cheft Sample ID. Polid Discharge							
Matrix: Water									Prep Ty	pe: Total/NA			
Analysis Batch: 90468									Prep E	Batch: 90463			
	Sample	Sample	Spike	MS	MS				%Rec				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits				
Chemical Oxygen Demand	49.7		250	282.0		mg/L		93	80 - 120				

Lab Sample ID: 670-39186- Matrix: Water Analysis Batch: 90468	-1 MSD						Clien	t Samp	le ID: Pon Prep Ty Prep E	pe: Tot	al/NA
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	49.7		250	289.9		mg/L		96	80 - 120	3	20

Method: 4500 CI F-2011 - Chlorine Residual (DPD)

Lab Sample ID: MB 410-507751/1	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Amalusia Datalu 507754	

Analysis Batch: 507751

Residual Chlorine

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Residual Chlorine	<0.0600	U	0.200	0.0600	mg/L			05/18/24 08:19	1

Lab Sample ID: LCS 410-507751/2 Matrix: Water				Clie	nt Saı	mple ID	: Lab Control Sample Prep Type: Total/NA	
Analysis Batch: 507751	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Residual Chlorine	1.00	0.0006		ma/l		100	05 105	

Lab Sample ID: LCSD 410-507751/3	Client Sample ID: Lab Control Sample Dup								
Matrix: Water					Prep Ty	/pe: Total/N	ΙΑ		
Analysis Batch: 507751									
	Spike	LCSD LCSD			%Rec	RP	Dد		
Analyte	Added	Result Quali	fier Unit	D %Re	c Limits	RPD Lim	nit		

0.9996

mg/L

1.00

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95 - 105

Job ID: 670-39186-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 670-89077/1 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 89077

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit SU 99 - 101 рΗ 6.00 6.0 101

Method: 5210 B-2016 - CBOD, 5-Day

Lab Sample ID: MB 670-89826/22 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89826

MB MB

Result Qualifier RL **MDL** Unit Analyzed Analyte Prepared Dil Fac 2.00 <2.00 U 2.00 mg/L 05/03/24 13:53 Carbonaceous Biochemical Oxygen Demand

Lab Sample ID: SCB 670-89826/24

Matrix: Water

Analysis Batch: 89826

SCB SCB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <2.00 Us 2.00 05/03/24 14:01 Carbonaceous Biochemical Oxygen 2.00 mg/L Demand

Lab Sample ID: USB 670-89826/21

Matrix: Water

Analysis Batch: 89826

USB USB Result Qualifier RL **MDL** Unit Analyte D Prepared Analyzed Dil Fac <2.00 U 2 00 Carbonaceous Biochemical Oxygen 2.00 mg/L 05/03/24 13:49

Demand

Lab Sample ID: LCS 670-89826/48 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 89826

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Carbonaceous Biochemical 198 128.7 *mg/L 65 85 - 115 Oxygen Demand

Method: 5210B-2016 - BOD, 5 Day

Lab Sample ID: MB 670-89826/2 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 89826

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 2.00 05/03/24 11:52 Biochemical Oxygen Demand <2.00 U 2.00 mg/L

Lab Sample ID: SCB 670-89826/4

Matrix: Water

Analysis Batch: 89826

SCB SCB Result Qualifier RI **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 2.00 <2.00 Us 05/03/24 11:59 Biochemical Oxygen Demand 2.00 mg/L

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Prep Type: Total/NA

Client Sample ID: Method Blank

Job ID: 670-39186-1

Prep Type: Total/NA

Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Method: 5210B-2016 - BOD, 5 Day (Continued)

Lab Sample ID: USB 670-89826/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 89826

USB USB

Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 2.00 05/03/24 11:50 **Biochemical Oxygen Demand** <2.00 U 2.00 mg/L

Lab Sample ID: LCS 670-89826/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 89826

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 198 194.0 Biochemical Oxygen Demand mg/L 98 85 - 115

Method: OIA-1677 - Cyanide, Available (Flow Injection)

Lab Sample ID: MB 410-503261/18 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 503261

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed Cyanide, Available <5.00 U 6.00 5.00 ug/L 05/07/24 15:02

Lab Sample ID: LCS 410-503261/16 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 503261

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Cyanide, Available 50.0 51.02 102 82 - 132 ug/L

Lab Sample ID: LCSD 410-503261/17 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit Limits **RPD** Limit Cyanide, Available 50.0 52.74 ug/L 105 82 - 132

Lab Sample ID: 670-39186-2 MS Client Sample ID: Pond Discharge Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

Sample Sample MS MS Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Cyanide, Available <5.00 U 50.0 51.42 103 82 - 130 ug/L

Lab Sample ID: 670-39186-2 MSD Client Sample ID: Pond Discharge Prep Type: Total/NA

Matrix: Water

Analysis Batch: 503261

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Cyanide, Available <5.00 U 50.0 51.50 ug/L 103 82 - 130 0

QC Sample Results

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39186-1

Method: SM 5310C - TOC

Lab Sample ID: MB 670-89445/20

Matrix: Water

Analysis Batch: 89445

		MB	MB							
Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organi	c Carbon	<1.00	U	2.00	1.00	mg/L			05/06/24 16:22	1
TOC Result	1	<1.00	U	2.00	1.00	mg/L			05/06/24 16:22	1
TOC Result	2	<1.00	U	2.00	1.00	mg/L			05/06/24 16:22	1

Lab Sample ID: MB 670-89445/7

Matrix: Water

Analysis Batch: 89445

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00	U	2.00	1.00	mg/L			05/06/24 13:15	1
TOC Result 1	<1.00	U	2.00	1.00	mg/L			05/06/24 13:15	1
TOC Result 2	<1.00	U	2.00	1.00	mg/L			05/06/24 13:15	1

Lab Sample ID: LCS 670-89445/18

Matrix: Water

Analysis Batch: 89445

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Organic Carbon	9.98	9.636		mg/L		97	80 - 120	

Lab Sample ID: LCSD 670-89445/19

Matrix: Water

Analysis Ratch: 89/

Analysis Batch: 89445									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Organic Carbon	 9.98	9.648		mg/L		97	80 - 120	0	20

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2

4

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

3

7

0

10

12

13

14

Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

HPLC/IC

Analysis Batch: 88979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	300.0	
MB 670-88979/37	Method Blank	Total/NA	Water	300.0	
MB 670-88979/6	Method Blank	Total/NA	Water	300.0	
LCS 670-88979/35	Lab Control Sample	Total/NA	Water	300.0	
LCS 670-88979/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-88979/36	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 670-88979/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 88980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	300.0	_
MB 670-88980/37	Method Blank	Total/NA	Water	300.0	
MB 670-88980/6	Method Blank	Total/NA	Water	300.0	
LCS 670-88980/35	Lab Control Sample	Total/NA	Water	300.0	
LCS 670-88980/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-88980/36	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 670-88980/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 89184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-89184/6	Method Blank	Total/NA	Water	300.0	
LCS 670-89184/32	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-89184/33	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 89185

Lab Sample ID 670-39186-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-89185/6	Method Blank	Total/NA	Water	300.0	
LCS 670-89185/32	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-89185/33	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 89193

Lab Sample ID 670-39186-1	Client Sample ID Pond Discharge	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 670-89193/3-A	Method Blank	Total Recoverable	Water	200.8	
LCS 670-89193/1-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 670-89193/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 89469

Lab Sample ID 670-39186-1	Client Sample ID Pond Discharge	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch 89193
MB 670-89193/3-A	Method Blank	Total Recoverable	Water	200.8	89193
LCS 670-89193/1-A	Lab Control Sample	Total Recoverable	Water	200.8	89193
LCSD 670-89193/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	89193

Analysis Batch: 89555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total Recoverable	Water	200.8	89193

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39186-1

Metals

Prep Batch: 671409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-2	Pond Discharge	Total/NA	Water	1631E	
MB 400-671409/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-671409/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-671409/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 671473

Lab Sample ID 670-39186-2	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 1631E	Prep Batch 671409
MB 400-671409/3-A	Method Blank	Total/NA	Water	1631E	671409
LCS 400-671409/4-A	Lab Control Sample	Total/NA	Water	1631E	671409
LCSD 400-671409/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	671409

General Chemistry

Analysis Batch: 89077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	4500 H+ B-2011	
LCS 670-89077/1	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 89086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	2540C - 2015	
MB 670-89086/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 670-89086/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 89089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	3500-Cr B-2011	
MB 670-89089/1	Method Blank	Total/NA	Water	3500-Cr B-2011	
MB 670-89089/7	Method Blank	Total/NA	Water	3500-Cr B-2011	
LCS 670-89089/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2011	

Analysis Batch: 89445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	SM 5310C	
MB 670-89445/20	Method Blank	Total/NA	Water	SM 5310C	
MB 670-89445/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 670-89445/18	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 670-89445/19	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Prep Batch: 89575

Lab Sample ID 670-39186-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method F	rep Batch
MB 670-89575/2-A	Pond Discharge Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 670-89575/1-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 89684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	2540D-2015	
MB 670-89684/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 670-89684/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Eurofins Orlando

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Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

General Chemistry

Analy	/sis	Batch:	89686
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	2320B-2011	
MB 670-89686/6	Method Blank	Total/NA	Water	2320B-2011	
LCS 670-89686/4	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 89826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	5210 B-2016	
670-39186-1	Pond Discharge	Total/NA	Water	5210B-2016	
MB 670-89826/2	Method Blank	Total/NA	Water	5210B-2016	
MB 670-89826/22	Method Blank	Total/NA	Water	5210 B-2016	
SCB 670-89826/24	Method Blank	Total/NA	Water	5210 B-2016	
SCB 670-89826/4	Method Blank	Total/NA	Water	5210B-2016	
USB 670-89826/1	Method Blank	Total/NA	Water	5210B-2016	
USB 670-89826/21	Method Blank	Total/NA	Water	5210 B-2016	
LCS 670-89826/3	Lab Control Sample	Total/NA	Water	5210B-2016	
LCS 670-89826/48	Lab Control Sample	Total/NA	Water	5210 B-2016	

Analysis Batch: 90003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	351.2	89575
MB 670-89575/2-A	Method Blank	Total/NA	Water	351.2	89575
LCS 670-89575/1-A	Lab Control Sample	Total/NA	Water	351.2	89575

Analysis Batch: 90004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method I	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	365.4	89575
MB 670-89575/2-A	Method Blank	Total/NA	Water	365.4	89575
LCS 670-89575/1-A	Lab Control Sample	Total/NA	Water	365.4	89575

Analysis Batch: 90045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	Nitrogen,Org	

Analysis Batch: 90058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-90058/16	Method Blank	Total/NA	Water	350.1	
LCS 670-90058/12	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-90058/15	Lab Control Sample Dup	Total/NA	Water	350.1	

Prep Batch: 90463

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Pond Discharge	Total/NA	Water	410.4	
Method Blank	Total/NA	Water	410.4	
Lab Control Sample	Total/NA	Water	410.4	
Lab Control Sample Dup	Total/NA	Water	410.4	
Pond Discharge	Total/NA	Water	410.4	
Pond Discharge	Total/NA	Water	410.4	
	Pond Discharge Method Blank Lab Control Sample Lab Control Sample Dup Pond Discharge	Pond Discharge Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Pond Discharge Total/NA	Pond Discharge Total/NA Water Method Blank Total/NA Water Lab Control Sample Total/NA Water Lab Control Sample Dup Total/NA Water Pond Discharge Total/NA Water	Pond Discharge Total/NA Water 410.4 Method Blank Total/NA Water 410.4 Lab Control Sample Total/NA Water 410.4 Lab Control Sample Dup Total/NA Water 410.4 Pond Discharge Total/NA Water 410.4 Water 410.4

Analysis Batch: 90468

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	670-39186-1	Pond Discharge	Total/NA	Water	410.4	90463

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Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

General Chemistry (Continued)

Analysis Batch: 90468 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-90463/1-A	Method Blank	Total/NA	Water	410.4	90463
LCS 670-90463/4-A	Lab Control Sample	Total/NA	Water	410.4	90463
LCSD 670-90463/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	90463
670-39186-1 MS	Pond Discharge	Total/NA	Water	410.4	90463
670-39186-1 MSD	Pond Discharge	Total/NA	Water	410.4	90463

Analysis Batch: 90545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 90641

Lab Sample ID 670-39186-2	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch
MB 670-90641/1	Method Blank	Total/NA	Water	1664A	
LCS 670-90641/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 670-90641/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Analysis Batch: 90819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	350.1	
MB 670-90819/7	Method Blank	Total/NA	Water	350.1	
LCS 670-90819/3	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-90819/6	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 503261

Lab Sample ID 670-39186-2	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method OIA-1677	Prep Batch
MB 410-503261/18	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-503261/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCSD 410-503261/17	Lab Control Sample Dup	Total/NA	Water	OIA-1677	
670-39186-2 MS	Pond Discharge	Total/NA	Water	OIA-1677	
670-39186-2 MSD	Pond Discharge	Total/NA	Water	OIA-1677	

Analysis Batch: 504724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	360.1	

Analysis Batch: 507751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39186-1	Pond Discharge	Total/NA	Water	4500 CI F-2011	
MB 410-507751/1	Method Blank	Total/NA	Water	4500 CI F-2011	
LCS 410-507751/2	Lab Control Sample	Total/NA	Water	4500 CI F-2011	
LCSD 410-507751/3	Lab Control Sample Dup	Total/NA	Water	4500 CI F-2011	

Client Sample ID: Pond Discharge Lab Sample ID: 670-39186-1

Date Collected: 05/02/24 12:30 **Matrix: Water** Date Received: 05/03/24 09:30

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	300.0		1	88979	YGS	EET ORL	05/03/24 16:42
Total/NA	Analysis	300.0		1	88980	YGS	EET ORL	05/03/24 16:42
Total/NA	Analysis	300.0		5	89185	YGS	EET ORL	05/06/24 13:28
Total Recoverable	Prep	200.8			89193	JR	EET ORL	05/06/24 09:23
Total Recoverable	Analysis	200.8		1	89469	JA	EET ORL	05/06/24 22:26
Total Recoverable	Prep	200.8			89193	JR	EET ORL	05/06/24 09:23
Total Recoverable	Analysis	200.8		10	89555	JA	EET ORL	05/07/24 12:14
Total/NA	Analysis	2320B-2011		1	89686	IAD	EET ORL	05/07/24 16:17
Total/NA	Analysis	2540C - 2015		1	89086	KB	EET ORL	05/03/24 16:43
Total/NA	Analysis	2540D-2015		1	89684	DGS	EET ORL	05/08/24 09:35
Total/NA	Analysis	350.1		1	90819	VJW	EET ORL	05/14/24 22:33
Total/NA	Analysis	3500-Cr B-2011		1	89089	IAD	EET ORL	05/03/24 16:00
Total/NA	Prep	365.2/365.3/365			89575	DGS	EET ORL	05/07/24 18:04
Total/NA	Analysis	351.2		1	90003	LD	EET ORL	05/09/24 10:58
Total/NA	Analysis	360.1		1	504724	B6LN	ELLE	05/10/24 12:21
Total/NA	Prep	365.2/365.3/365			89575	DGS	EET ORL	05/07/24 18:04
Total/NA	Analysis	365.4		1	90004	LD	EET ORL	05/09/24 10:58
Total/NA	Prep	410.4			90463	VJW	EET ORL	05/13/24 12:30
Total/NA	Analysis	410.4		1	90468	VJW	EET ORL	05/13/24 13:30
Total/NA	Analysis	4500 CI F-2011		1	507751	UDS7	ELLE	05/18/24 08:19
Total/NA	Analysis	4500 H+ B-2011		1	89077	IAD	EET ORL	05/03/24 15:15
Total/NA	Analysis	5210 B-2016		1	89826	ZM	EET ORL	05/03/24 17:34
Total/NA	Analysis	5210B-2016		1	89826	ZM	EET ORL	05/03/24 13:43
Total/NA	Analysis	Nitrogen,Org		1	90045	CHL	EET ORL	05/09/24 17:09
Total/NA	Analysis	SM 3500 CR B		1	90545	CHL	EET ORL	05/13/24 17:54
Total/NA	Analysis	SM 5310C		1	89445	IAD	EET ORL	05/06/24 17:38

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39186-2 Date Collected: 05/02/24 12:30 **Matrix: Water**

Date Received: 05/03/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	1631E			671409	VLC	EET PEN	05/07/24 16:25 - 05/08/24 09:30 ¹
Total/NA	Analysis	1631E		1	671473	VLC	EET PEN	05/14/24 12:02
Total/NA	Analysis	1664A		1	90641	BG	EET ORL	05/14/24 09:40
Total/NA	Analysis	OIA-1677		1	503261	UJE2	ELLE	05/07/24 15:05

This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Orlando

Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39186-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Oklahoma	State	2308	08-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-28-25
Washington	State	C1089	10-19-24

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
lowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

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Client: Roam Environmental LLC Job ID: 670-39186-1 Project/Site: TPDES Renewal

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	05-23-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Orlando

5/31/2024 (Rev. 1)

Method Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39186-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET ORL
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.8	Metals (ICP/MS)	EPA	EET ORL
1664A	HEM and SGT-HEM	1664A	EET ORL
2320B-2011	Alkalinity, Total	SM	EET ORL
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET ORL
2540D-2015	Total Suspended Solids (Dried at 103-105°C)	SM	EET ORL
350.1	Nitrogen, Ammonia	EPA	EET ORL
3500-Cr B-2011	Chromium, Hexavalent	SM	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
360.1	Oxygen, Dissolved	EPA	ELLE
365.4	Phosphorus, Total	EPA	EET ORL
110.4	COD	EPA	EET ORL
1500 CI F-2011	Chlorine Residual (DPD)	SM	ELLE
1500 H+ B-2011	pH	SM	EET ORL
5210 B-2016	CBOD, 5-Day	SM	EET ORL
5210B-2016	BOD, 5 Day	SM	EET ORL
Nitrogen,Org	Nitrogen, Organic	EPA	EET ORL
OIA-1677	Cyanide, Available (Flow Injection)	OI CORP	ELLE
SM 3500 CR B	Chromium, Trivalent	SM	EET ORL
SM 5310C	TOC	SM	EET ORL
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.8	Preparation, Total Recoverable Metals	EPA	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
365.2/365.3/365	Phosphorus, Total	EPA	EET ORL
110.4	COD	EPA	EET ORL

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Sample Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-39186-1	Pond Discharge	Water	05/02/24 12:30	05/03/24 09:30
670-39186-2	Pond Discharge	Water	05/02/24 12:30	05/03/24 09:30

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Δ Yes Δ No

481 Newburyport Avenue Altamonte Springs, FL 32701 Phone (407) 339-5984 Phone (407) 260-6110	(Chain	of Cus	stody F	₹e	СО	rd														🔆 eurofins
	Sampler:	^	.1	Lab I										Carrie	er Trac	king	No(s):				COC No:
Client Information	Ste	ie H	Kidd	Buil		Johr	1														670-18561-7577.1
Client Contact: Blair Shackford	Ster Phone: 806	206	7119	E-Ma		uiloc	@at	AUFO	ofinsu	15 00	m			State	of Ori	gin:					Page: Page 1 of 2
Company:	aUlo-	-373	IDWCID:	3011	11.0	ullesi	wei.	.euro	Jillisu	15.00	***										
Roam Environmental LLC			PWSID.		ı					A	naly	sis	Req	ues	ted						Job #:
Address: 3204 Hogan Ct	Due Date Request	ted:			T																Preservation Codes: N - None
City: Edmond	TAT Requested (d	lays):			1									2							B - NsOH S - H2SO4 D - HNO3
State, Zip: OK, 73013	Compliance Proje	ct: A Yes	Δ No		1									lent Ca							
Phone: 405-476-5321(Tel)	PO #: Purchase Orde	r not require	ed]ູ								sp	, Triva	nts				_		
Email: roamenv@gmail.com	WO#:				or No	(<u>Q</u>							od Soli	omiun	olluta		spi	lethod	Method	2	
Project Name:	Project #:				Zes Zes	5		_					ě	5	<u>\$</u>		တိ	all	l e	containers	
TPDES Renewal	67004839] <u> </u>	8) ou			410.4		iss	Ę	ē		P P	20	۱	Ita	
IACX Rock Creek - Pond Discharge	SSOW#:				Sample	ASD ()	Aethod	cal Me	ethod	athod		īţ	Total C	exaval	- (MOD) Priority Pollutants		Suspended Solids	Calc -	DCal -	70	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, S=solid, 0≏waste/oll, BT=Tissue, A=Alr)	Field Filtered	Perform MS/MSD (Yes	1631E - Local Method	4500_CI_F - Local Method	360.1 - Local Method	1677 - Local Method	350.1, 351.2, 365.4,	2320B - Alkalinity	2540C_Calcd - Total Dissolved Solids	3500_CR_B - Hexavalent Chromium, Trivalent Calc	200.8_CWA - (N	Nitrogen, Org	2540D - Total S	SM5210B_BODCalc - Local Method	SM5210B_CBODCal - Local Method	Total Number	Special Instructions/Note:
		><	Preserva	ition Code:	X	M	N	N	N	В	s	N	N	N	D	N	N	N	N	X	
Pond Discharge	5/2/24	12.30	Comp	Water																	
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				Water																	
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670-39186 Chain of Custody

ossible Hazard Identification			San	nple Di	sposa	al (A	fee m	nay b	e as:	sess	ed if s	samp	les a	re re	taine	d long	er tha	n 1 m	onth)	
Non-Hazard Flammable Skin Irritant Poison B	Unknown I	Radiological		Retu	rn To	Client			Dis	sposa	al By l	.ab			Arch	ive For			Months	
eliverable Requested: I, II, III, IV, Other (specify)			Spe	cial Ins	tructio	ns/Q0	Rec	quire	nents	3:										
									-	7										

Empty Kit Relinquished by:	Date:	Time		Method of Shipment:	4
Relinquished by: Steve A Kidd	Date/Time: 5/2/24 1330	Company IACX-RC	Receive by:	Date/Time:	Via Company
Relinquished by:	Date/Time [®]	Company	Received by:	Date/Time:	Company Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	- 1/-	

Page 30 of 36

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Eurofins Orlando

Relinquished by:

Custody Seals Intact:

 Δ Yes Δ No

Custody Seal No.:

481 Newburyport Avenue Altamonte Springs, FL 32701 Phone (407) 339-5984 Phone (407) 260-6110		Chain	of Cus	tody F	Rec	or	d									(eurofins
Client Information	Sampler:	e A H	1.11	Lab I Buil	PM: es, Jo	ohn						Carrier Tr	acking No(s):			C No: 0-18561-7577.2
Client Contact: Blair Shackford		-395-		E-Ma Joh		les@	et.eu	rofins	us.cor	m		State of C	rigin:			Pag Pag	e: ge 2 of 2
Company: Roam Environmental LLC			PWSID:						Ar	nalysi	s Red	ueste	1			Job	#:
Address: 3204 Hogan Ct	Due Date Request	ted:	•		П											S-F	eservation Codes: H2SO4
City: Edmond	TAT Requested (d	ays):			11											1 - N	None
State, Zip: OK, 73013	Compliance Proje	ct: A Yes	Δ Νο		11		É	Ì									
Phone: 405-476-5321(Tel)	PO#: Purchase Orde	r not require	ed				terial (F										
Email: roamenv@gmail.com	wo#: N A				N or	Q .	n ble Ma		FMS						ē		
Project Name: TPDES Renewal	Project #: 67004839				Sample (Yes	98 or	Carbon		ORGE						containers		
TACX- Rock Creek - Pond Discharge	SSOW#:				Samp	SD (rganic	ı	300 and						7	: I	er:
J		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	old Filtered	Perform MS/MSD (Yes or No)	5310C - Lotal Organic Carbon 1664A NP - Hexane Extractable Material (HEM)	SM4500_H+ - pH	300_ORGFM_28D, 300_ORGFMS						Total Number		
Sample Identification	Sample Date	Time		BT=Tissue, A=Air)		s Xs		N N	N N	-		_		+	_\ <u>^</u> 2	-	Special Instructions/Note:
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poi	son B Unkn	nown 🗆	Radiologica] Retu	rn To	Clien	t		isposal		les are	7	ned lo hive l	onger than 1 month) For Months
Deliverable Requested: I, II, III, IV, Other (specify)					s	Speci	ial Ins	tructio	ons/Q	C Requ	iremer	ts:					
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1/

Received by:

Cooler Temperature(s) °C and Other Remarks:

Company

Date/Time:

Company

Date/Time: 3124

Chain of Custody Record

481 Newburyport Avenue Altamonte Springs, FL 32701 Phone: 407-339-5984 Fax: 407-260-6110

Eurofins Orlando

2		

😯 eurofins

Client Information (Sub Contract Lab)			<u>u</u>	Builes, John	u						670-28525.1	
Client Contact. Shinping/Receiving	Phone:		<u>u -</u>	E-Mail: .lohn Builes@et eurofinsus com	en en	ofinsus	E	State of Origin: Florida	:uk		Page: Page 1 of 1	
Company				Accred	ations Re	Accreditations Required (See note)	ofe):				: o . o	
Company. Eurofins Environment Testing Southeast L				NELA	NELAP - Texas	duired (See	note).				670-39186-1	
Address: 3355 McLemore Drive, ,	Due Date Requested: 5/16/2024					,	Analysis Requested	quested			Preservation Codes:	es:
City: Pensacola	TAT Requested (days):	ä										
State, Zip: FL, 32514												
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			(c								
Email:	:#OM									5.4	81	
Project Name: TPDES Renewal	Project #: 67004839									enieto	ALUPIU	
Site:	SSOW#:				_					05 30	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	San Ty San Ty Sample (C=c Ty Time G=q	Sample Matrix Type Secold, Cacomp, Cacomp, Gegrab) BTETISSUS, ACARP	Field Filtered	1631E/1631E_Pi					Total Number		Special Instructions/Note:
		1		X								
Pond Discharge (670-39186-2)	5/2/24	12:30 Eastern	Water		×						2	
			_						4			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix be status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all	nt Testing Southeast, LLC nalysis/tests/matrix being a ion immediately. If all req	places the owners analyzed, the samp uested accreditatio	ship of method, and ples must be shipp ns are current to d	ilyte & accre ed back to thate, return thate,	ditation co e Eurofins e signed C	npliance up Environmel hain of Cus	on our subcontra nt Testing Southe tody attesting to	ct laboratories. ast, LLC labora iaid complianc	This samplatory or other	e shipment is instructions Environmen	s forwarded under chair will be provided. Any c rt Testing Southeast, LL	LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratoring analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.
Possible Hazard Identification				Sa	mple Di	sposal (A fee may be	assessed	f sample:	are retai	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	month)
Unconfirmed				_	Retu	n To Clie	ınt	Disposal B	y Lab] Ar	chive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	e Rank: 2		୍ଦ୍ର	ecial Ins	ructions/	Special Instructions/QC Requirements:					
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Relinquished by:	Date/Time:	1200	Company		Received by	by:	BO			$\sqrt{\ }$	sy giz	Company
Relinquished by:	Date/Time:		Company		Received by:	by:			Date/Time	ime:		Company
Relinquished by:	Date/Time:		Company		Received by	by:			Date/Time:	ime:		Company
Custody Seals Infact: Custody Seal No.: Δ Yes Δ No					Cooler T	emperature	Cooler Temperature(s) °C and Other Remarks:	temarks:	o	00	7,	۹
						١						Ver. 06/08/2021

Eurofins Orlando

481 Newburyport Avenue Altamonte Springs. FL 32701

Chain of Custody Record



🐫 eurofins

Aliamonte Springs, FL 32701												* **								
Phone: 407-339-5984 Fax: 407-260-6110	Sampler:				PM: iles, .	John	1					Car	rier Trac	king N	lo(s):			COC No: 670-28528,1		
Client Information (Sub Contract Lab) Client Contact:	Phone:			E-M	lail:			eurofir	nsus.co	om			te of Ori	gin:				Page: Page 1 of 1		
Shipping/Receiving				100.					d (See			1						Job #:		
Company: Eurofins Lancaster Laboratories Environm					NE	LAF	- Te	exas										670-39186-1		
Address:	Due Date Requests	d:			Т													Preservation Code	5:	
2425 New Holland Pike, ,	5/17/2024				Щ.				Α	naly	sis R	geque	sted			<u>, </u>				
City:	TAT Requested (da	ys):			ш															
Lancaster					ш															
State, Zip:					П															
PA, 17601 Phone:	PO#:				11															
717-656-2300(Tel)	1				اءا						1									- 1
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TPDES Renewal	67004839				ᆜ읦	اچ											out;	011		- 1
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						S/MS								- 1			Total Number of containers			-
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			Туре	(W=water, S=solid.	E I	Ĕ				1 1				- 1			Z			
		Sample	(C=comp,	O=waste/oil,	Field	Perform	360.1	1677						- 1			盲			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	-	-			ñ	-	_	+		_	+	-	-	-	E	Special Ins	tructions/No	ote:
			Preserva	ation Code:		\triangle		_		+			-				X			
Pond Discharge (670-39186-1)	5/2/24	12:30 Eastern		Water	Ш		×			Ш			Ш				3			
Pond Discharge (670-39186-2)	5/2/24	12:30 Eastern		Water	Ш			Х									1			
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																				tation
states should be brought to Euronins Environment Testing Southeast, LLC atter	ition immediately. If all	requested acc	reditations are	current to dat	e, retu	m the	signe	d Chair	n of Cus	tody att	esting t	to said c	omplian	e to E	urofins E	Environn	nent '	Testing Southeast, LLC	14	
Possible Hazard Identification						Sar	mple	Dispo	osal (/	A fee i	mav b	oe ass	essed	if sai	moles	are re	tain	ed longer than 1 i	month)	
Unconfirmed									To Clie		_		osal E		_			hive For	Months	
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Custody Seals Intact: Custody Seal No								1)/	V	27	09:30	1	- 112,1
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No							Coole	r Temp	erature(s) °C ar	nd Othe	r Rema		1 1	3			1	0.2	
													16	· /	, 0			U:	\sim \sim	



Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-39186-1

Login Number: 39186 List Source: Eurofins Orlando

List Number: 1

Creator: Hartley, Tyler

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Requested analyses are not listed on COC
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	

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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-39186-1

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC Login Number: 39186 List Creation: 05/04/24 01:39 PM

List Number: 3 Creator: Santiago, Nathaniel

Creator: Santiago, Nathaniei		
Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required(=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from	N/A	

WV)?

Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-39186-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 05/04/24 11:46 AM

Creator: Earnest, Tamantha

Creator: Earnest, Iamantna		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	False	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Blair Shackford Roam Environmental LLC 3204 Hogan Ct Edmond, Oklahoma 73013

Generated 5/31/2024 1:12:14 PM

JOB DESCRIPTION

TPDES Renewal

JOB NUMBER

670-40016-1

Eurofins Orlando 481 Newburyport Avenue Altamonte Springs FL 32701



Eurofins Orlando

Job Notes

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

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

Authorization

Generated 5/31/2024 1:12:14 PM

Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com (561)558-4549

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Laboratory Job ID: 670-40016-1

Table of Contents

Cover Page	1
Table of Contents	3
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Definitions/Glossary

Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Qualifiers

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Qualifier	Qualifier Description
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U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier Qualifier Description

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

U Indicates the analyte was analyzed for but not detected.

General Chemistry

 Qualifier
 Qualifier Description

 ^2
 Calibration Blank (ICB and/or CCB) is outside acceptance limits.

b Result Detected in the Unseeded Control blank (USB).

B Compound was found in the blank and sample.

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Orlando

Page 4 of 41 5/31/2024

Case Narrative

Client: Roam Environmental LLC

Project: TPDES Renewal

Job ID: 670-40016-1 Eurofins Orlando

Job Narrative 670-40016-1

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

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

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

Receipt

The samples were received on 5/17/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

HPLC/IC

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

Metals

Method 1631E: The following samples were diluted due to the nature of the sample matrix: Pond Discharge (670-40016-1) and Pond Discharge (670-40016-2). Elevated reporting limits (RLs) are provided. The samples appears to be dirty and cloudy.

Method 1631E: Routine preservation and digestion of samples analyzed by EPA 1631E consists of the addition of 0.2mL bromine monochloride (BrCl) solution. Additional BrCl was required to ensure complete sample oxidation for the following samples: Pond Discharge (670-40016-1) and Pond Discharge (670-40016-2). An additional method digestion blank, with like amounts of BrCl, was prepared and analyzed with the samples. The mercury concentration in this additional method blank is less than the reporting limit

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

General Chemistry

Method 350.1: The method blank for analytical batch 670-93373 contained Ammonia (as N) above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were otherwise appropriately qualified.

Method 350.1: The method blank for analytical batch 670-93373 contained AffectedAnalytes above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were otherwise appropriately qualified.

Method 350.1: The method blank for analytical batch 670-93373 contained AffectedAnalytes above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were otherwise appropriately qualified.

Method 350.1: The method blank for analytical batch 670-93373 contained Ammonia (as N) above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank or were otherwise appropriately qualified.

Method 3500_CR_B: The following sample(s) was preserved in hold extending analysis holding time. Preservation buffer added by laboratory: Pond Discharge (670-40016-1).

Method 360.1: Sample was transfered to 300 ml BOD bottle

Pond Discharge (670-40016-1)

Method SM5210B_BODCalc: The unseeded method blank result associated with batch 670-92199 was higher than the method-required limit of 0.2 mg/L.

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Job ID: 670-40016-1

5

8

4.0

4 4

12

13

Case Narrative

Client: Roam Environmental LLC

Project: TPDES Renewal

Job ID: 670-40016-1 (Continued)

Job ID: 670-40016-1

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

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Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-40016-1

Client Sample ID: Pond Discharge

Lab Sample ID: 670-40016-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Fluoride	1.38		0.400	0.200	mg/L		300.0	Total/NA
Chloride	59.8		0.400	0.200	mg/L	1	300.0	Total/NA
Sulfate	299		10.0		mg/L	10	300.0	Total/NA
Mercury	0.0191		0.00250	0.00100	ug/L	1	1631E	Total/NA
Aluminum	767		40.0	3.40	-	1	200.8	Total
					Ü			Recoverab
Arsenic	5.13		4.00	0.390	ug/L	1	200.8	Total
								Recoverab
Barium	181		4.00	0.368	ug/L	1	200.8	Total
Oh	2.00		0.00	0.000	/1	4	200.0	Recoverab
Chromium	2.90		2.00	0.388	ug/L	1	200.8	Total Recoverab
Copper	6.57		2.00	0.643	ua/l	1	200.8	Total
Соррог	0.07		2.00	0.010	ug/L	·	200.0	Recoverab
Lead	1.10	J	2.00	0.243	ug/L	1	200.8	Total
					-			Recoverab
Nickel	1.31	J	4.00	0.915	ug/L	1	200.8	Total
						_		Recoverab
Selenium	2.16	J	4.00	0.483	ug/L	1	200.8	Total
Zinc	28.0		4.00	1.29	ug/L	1	200.8	Recoverab Total
ZIIIC	20.0		4.00	1.23	ug/L	ı	200.0	Recoverab
Iron	0.774		0.0250	0.0124	ma/L	1	200.8	Total
					J.			Recoverab
Manganese	0.0270		0.00100	0.000987	mg/L	1	200.8	Total
								Recoverab
Magnesium	37.7		1.00	0.0743	mg/L	10	200.8	Total
Allcolinity	05.1		10.0	10.0	ma er /1	4	2220D 2044	Recoverab
Alkalinity Total Dissolved Solids	85.1 548		10.0 5.00		mg/L mg/L	1	2320B-2011 2540C - 2015	Total/NA
	74.8		6.25			1	2540C - 2015 2540D-2015	Total/NA Total/NA
Total Suspended Solids		D 40			mg/L	1	350.1	Total/NA
Ammonia (as N)	0.0343	D ^2	0.0200	0.0140	•	1		
Nitrogen, Kjeldahl	2.71		0.400	0.180		1	351.2	Total/NA
Oxygen, Dissolved	3.76	HF	0.400	0.400	-	1	360.1	Total/NA
Total Phosphorus as P	1.05		0.100	0.0400	•	1	365.4	Total/NA
Chemical Oxygen Demand	77.2	- <u></u>	20.0		mg/L	1	410.4	Total/NA
pH		HF	0.02	0.01		1	4500 H+ B-2011	Total/NA
Temperature	17.2		0.1	0.1	U	1	4500 H+ B-2011	Total/NA
Carbonaceous Biochemical Oxygen Demand	4.35	b	2.00	2.00	mg/L	1	5210 B-2016	Total/NA
Biochemical Oxygen Demand	4.77		2.00		mg/L	1	5210B-2016	Total/NA
Nitrogen, Organic	2.68		0.400	0.200	mg/L	1	Nitrogen,Org	Total/NA
Total Organic Carbon	5.48		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 1	5.48		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 2	5.48		2.00	1.00	mg/L	1	SM 5310C	Total/NA

Client Sample ID: Pond Discharge

	<u> </u>				
Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Mercury	0.0161	0.00250	0.00100 ug/L	1 1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 670-40016-2

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Lab Sample ID: 670-40016-1 Date Collected: 05/16/24 12:30 **Matrix: Water**

Date Received: 05/17/24 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.38		0.400	0.200	mg/L			05/17/24 23:48	1
Nitrate as N	<0.200	U	0.400	0.200	mg/L			05/17/24 23:48	1
Chloride	59 .8		0.400	0.200	mg/L			05/17/24 23:48	1
Nitrite as N	<0.200	U	0.400	0.200	mg/L			05/17/24 23:48	1
Sulfate	299		10.0	5.00	mg/L			05/20/24 13:41	10

Method: EPA 1631E - Mercury,	Low Level (CVAFS)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0191	0.00250	0.00100 ug/L		05/21/24 14:14	05/28/24 12:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	767		40.0	3.40	ug/L		05/17/24 14:34	05/20/24 14:30	1
Antimony	<0.407	U	2.00	0.407	ug/L		05/17/24 14:34	05/20/24 14:30	1
Arsenic	5.13		4.00	0.390	ug/L		05/17/24 14:34	05/20/24 14:30	1
Barium	181		4.00	0.368	ug/L		05/17/24 14:34	05/20/24 14:30	1
Beryllium	<0.320	U	1.00	0.320	ug/L		05/17/24 14:34	05/20/24 14:30	1
Cadmium	<0.245	U	1.00	0.245	ug/L		05/17/24 14:34	05/20/24 14:30	1
Chromium	2.90		2.00	0.388	ug/L		05/17/24 14:34	05/20/24 14:30	1
Copper	6.57		2.00	0.643	ug/L		05/17/24 14:34	05/20/24 14:30	1
Lead	1.10	J	2.00	0.243	ug/L		05/17/24 14:34	05/20/24 14:30	1
Nickel	1.31	J	4.00	0.915	ug/L		05/17/24 14:34	05/20/24 14:30	1
Selenium	2.16	J	4.00	0.483	ug/L		05/17/24 14:34	05/20/24 14:30	1
Silver	< 0.0370	U	1.00	0.0370	ug/L		05/17/24 14:34	05/20/24 14:30	1
Thallium	<0.349	U	1.00	0.349	ug/L		05/17/24 14:34	05/20/24 14:30	1
Zinc	28.0		4.00	1.29	ug/L		05/17/24 14:34	05/20/24 14:30	1
Iron	0.774		0.0250	0.0124	mg/L		05/17/24 14:34	05/20/24 14:30	1
Manganese	0.0270		0.00100	0.000987	mg/L		05/17/24 14:34	05/20/24 14:30	1
Magnesium	37.7		1.00	0.0743	mg/L		05/17/24 14:34	05/20/24 16:13	10

Magnesium	31.1		1.00	0.0140	mg/L		00/11/24 14.04	00/20/24 10:10	10
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B-2011)	85.1		10.0	10.0	mg/L			05/17/24 21:48	1
Total Dissolved Solids (SM 2540C - 2015)	548		5.00	5.00	mg/L			05/20/24 11:41	1
Total Suspended Solids (SM 2540D-2015)	74.8		6.25	2.50	mg/L			05/22/24 15:52	1
Ammonia (as N) (EPA 350.1)	0.0343	B ^2	0.0200	0.0140	mg/L			05/30/24 16:53	1
Cr (VI) (SM 3500-Cr B-2011)	<20.0	U	40.0	20.0	ug/L			05/17/24 11:50	2
Nitrogen, Kjeldahl (EPA 351.2)	2.71		0.400	0.180	mg/L		05/24/24 13:08	05/28/24 12:19	1
Oxygen, Dissolved (EPA 360.1)	3.76	HF	0.400	0.400	mg/L			05/27/24 10:56	1
Total Phosphorus as P (EPA 365.4)	1.05		0.100	0.0400	mg/L		05/24/24 13:08	05/28/24 12:19	1
Chemical Oxygen Demand (EPA 410.4)	77.2		20.0	10.0	mg/L		05/23/24 15:00	05/23/24 15:30	1
Residual Chlorine (SM 4500 CI F-2011)	<0.0600	U HF	0.200	0.0600	mg/L			05/28/24 23:43	1
pH (SM 4500 H+ B-2011)	7.6	HF	0.02	0.01	SU			05/20/24 13:55	1
Temperature (SM 4500 H+ B-2011)	17.2	HF	0.1	0.1	Deg. C			05/20/24 13:55	1
Carbonaceous Biochemical Oxygen Demand (SM 5210 B-2016)	4.35	b	2.00	2.00	mg/L			05/17/24 16:52	1
Biochemical Oxygen Demand (SM 5210B-2016)	4.77		2.00	2.00	mg/L			05/17/24 15:13	1

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Client Sample Results

Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Date Collected: 05/16/24 12:30

Date Received: 05/17/24 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Organic (EPA	2.68		0.400	0.200	mg/L			05/29/24 08:29	1
Nitrogen,Org)									
Cr (III) (SM 3500 CR B)	<10.0	U	20.0	10.0	ug/L			05/31/24 12:05	1
Total Organic Carbon (SM 5310C)	5.48		2.00	1.00	mg/L			05/20/24 19:47	1
TOC Result 1 (SM 5310C)	5.48		2.00	1.00	mg/L			05/20/24 19:47	1
TOC Result 2 (SM 5310C)	5.48		2.00	1.00	mg/L			05/20/24 19:47	1

Client Sample ID: Pond Discharge

Date Collected: 05/16/24 12:30

Date Received: 05/17/24 09:20

OIA-1677)

Method: EPA 1631E - Mercur Analyte	• 1	(CVAFS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0161		0.00250	0.00100	ug/L		05/21/24 14:14	05/28/24 12:19	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM) (1664A)	<1.2	U	5.0	1.2	mg/L			05/29/24 08:25	1
Cyanide, Available (OI CORP	< 5.00	П	6.00	5.00	ua/l			05/28/24 13:36	1

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Lab Sample ID: 670-40016-1

Lab Sample ID: 670-40016-2

Matrix: Water

Matrix: Water

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Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-91314/37

Matrix: Water

Analysis Batch: 91314

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

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrate as N 0.400 05/17/24 18:44 <0.200 U 0.200 mg/L Nitrite as N <0.200 U 0.400 0.200 mg/L 05/17/24 18:44

Lab Sample ID: MB 670-91314/6

Matrix: Water

Analysis Batch: 91314

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	U	0.400	0.200	mg/L			05/17/24 09:41	1
Nitrite as N	<0.200	U	0.400	0.200	mg/L			05/17/24 09:41	1

Lab Sample ID: LCS 670-91314/35 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91314

	Sı	oike	LCS	LCS				%Rec	
Analyte	Ad	ded	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N		2.00	1.990		mg/L		100	90 - 110	
Nitrite as N	:	2.00	2.124		mg/L		106	90 - 110	

Lab Sample ID: LCSD 670-91314/36

Matrix: Water

Analysis Batch: 91314

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate as N	2.00	1.990		mg/L		99	90 - 110	0	20	
Nitrite as N	2.00	2.123		mg/L		106	90 - 110	0	20	

Lab Sample ID: MB 670-91315/37 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91315

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/17/24 18:44	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/17/24 18:44	1
Sulfate	<0.500	U	1.00	0.500	mg/L			05/17/24 18:44	1

MR MR

Lab Sample ID: MB 670-91315/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91315

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/17/24 09:41	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/17/24 09:41	1
Sulfate	< 0.500	U	1.00	0.500	ma/L			05/17/24 09:41	1

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Job ID: 670-40016-1 Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 670-91315/35

Matrix: Water Analysis Batch: 91315

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Fluoride	2.00	2.101		mg/L		105	90 - 110	
Chloride	4.00	3.925		mg/L		98	90 - 110	
Sulfate	10.0	10.24		mg/L		102	90 - 110	

Lab Sample ID: LCSD 670-91315/36

Matrix: Water

Analysis Batch: 91315

/ mary ord Datom C 1010									
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Fluoride	2.00	2.105		mg/L		105	90 - 110	0	20
Chloride	4.00	3.940		mg/L		98	90 - 110	0	20
Sulfate	10.0	10.23		mg/L		102	90 - 110	0	20

Lab Sample ID: MB 670-91533/37

Matrix: Water

Analysis Batch: 91533

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	U	0.400	0.200	mg/L			05/20/24 21:11	1
Nitrite as N	<0.200	U	0.400	0.200	mg/L			05/20/24 21:11	1

Lab Sample ID: MB 670-91533/6

Matrix: Water

Analysis Batch: 91533

	MR	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	U	0.400	0.200	mg/L			05/20/24 10:09	1
Nitrite as N	<0.200	U	0.400	0.200	mg/L			05/20/24 10:09	1

Lab Sample ID: LCS 670-91533/35

Matrix: Water

Analysis Batch: 91533								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	2.00	1.948	-	mg/L		97	90 - 110	
Nitrite as N	2.00	2 046		ma/l		102	00 110	

Lab Sample ID: LCS 670-91533/4

Matrix: Water

Analysis Batch: 91533

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	2.00	1.929		mg/L		96	90 - 110	
Nitrite as N	2.00	1.917		mg/L		96	90 - 110	

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 670-91533/36 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 91533

•	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate as N	2.00	1.931		mg/L		97	90 - 110	1	20	
Nitrite as N	2.00	2.050		mg/L		103	90 - 110	0	20	

Lab Sample ID: LCSD 670-91533/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91533

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	2.00	1.931		mg/L		97	90 - 110	0	20
Nitrite as N	2.00	1.926		mg/L		96	90 - 110	0	20

Lab Sample ID: MB 670-91534/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91534

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/20/24 10:09	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/20/24 10:09	1
Sulfate	<0.500	U	1.00	0.500	mg/L			05/20/24 10:09	1

Lab Sample ID: LCS 670-91534/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91534

	Spil	ke LCS	LCS			%Rec	
Analyte	Adde	ed Result	Qualifier U	Unit D	%Rec	Limits	
Fluoride	2.0	1.989	n	mg/L	99	90 - 110	
Chloride	4.0	00 3.646	n	mg/L	91	90 - 110	
Sulfate	10	.0 9.361	n	mg/L	94	90 - 110	

Lab Sample ID: LCSD 670-91534/5 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91534

Allalysis Dalcil. 31334										
-	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Fluoride	2.00	1.968		mg/L		98	90 - 110	1	20	
Chloride	4.00	3.667		mg/L		92	90 - 110	1	20	
Sulfate	10.0	9.386		mg/L		94	90 - 110	0	20	

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-672842/3-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 672929

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Mercury <0.000200 U 0.000500 0.000200 ug/L 05/24/24 16:00 05/28/24 10:08

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5/31/2024

Prep Batch: 672842

Prep Type: Total/NA

QC Sample Results

Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Job ID: 670-40016-1

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCS 400-672842/4-A

Matrix: Water

Analysis Batch: 672929

Spike

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672842
%Rec

 Analyte
 Added Mercury
 Result Qualifier Unit
 Unit
 D
 %Rec Limits

 Mercury
 0.00500
 0.004575
 ug/L
 92
 79 - 121

Lab Sample ID: LCSD 400-672842/5-A

Matrix: Water

Analysis Batch: 672929

Spike

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

Prep Batch: 672842

RPD

Rec RPD

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits
 RPD
 Limit

 Mercury
 0.00500
 0.004551
 ug/L
 91
 79 - 121
 1
 20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 670-91426/3-A

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total Recoverable

Matrix: Water

Analysis Batch: 91808

Prep Type: Total Recoverable
Prep Batch: 91426

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac **Analyte** Aluminum <3.06 U 36.0 3.06 ug/L 05/17/24 14:34 05/20/24 12:21 Antimony <0.366 U 1.80 0.366 ug/L 05/17/24 14:34 05/20/24 12:21 Arsenic <0.351 U 3.60 0.351 ug/L 05/17/24 14:34 05/20/24 12:21 Barium <0.331 U 3.60 0.331 ug/L 05/17/24 14:34 05/20/24 12:21 05/17/24 14:34 05/20/24 12:21 Beryllium 0.288 ug/L <0.288 U 0.900 Cadmium <0.221 U 0.900 0.221 ug/L 05/17/24 14:34 05/20/24 12:21 Chromium 05/17/24 14:34 05/20/24 12:21 <0.349 U 1.80 0.349 ug/L Copper <0.579 U 1.80 0.579 ug/L 05/17/24 14:34 05/20/24 12:21 Lead 1.80 0.219 ug/L 05/17/24 14:34 05/20/24 12:21 <0.219 U Nickel 3.60 0.824 ug/L 05/17/24 14:34 05/20/24 12:21 <0.824 U 05/17/24 14:34 05/20/24 12:21 Selenium <0.435 U 3.60 0.435 ug/L Silver <0.0333 U 0.900 0.0333 ug/L 05/17/24 14:34 05/20/24 12:21 05/17/24 14:34 05/20/24 12:21 Thallium < 0.314 U 0.900 0.314 ug/L Zinc <1.16 U 3.60 1.16 ug/L 05/17/24 14:34 05/20/24 12:21 Iron <0.0111 U 0.0225 0.0111 mg/L 05/17/24 14:34 05/20/24 12:21 Manganese <0.000888 U 0.000900 0.000888 mg/L 05/17/24 14:34 05/20/24 12:21 Magnesium <0.00669 U 0.0900 0.00669 mg/L 05/17/24 14:34 05/20/24 12:21

Lab Sample ID: LCS 670-91426/1-A Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total Recoverable Analysis Batch: 91808 Prep Batch: 91426

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	5149		ug/L		103	85 - 115	
Antimony	100	102.2		ug/L		102	85 - 115	
Arsenic	100	101.6		ug/L		102	85 - 115	
Barium	100	101.4		ug/L		101	85 - 115	
Beryllium	100	96.59		ug/L		97	85 - 115	
Cadmium	100	99.80		ug/L		100	85 - 115	
Chromium	100	96.90		ug/L		97	85 - 115	
Copper	100	101.2		ug/L		101	85 - 115	
Lead	100	98.72		ug/L		99	85 - 115	
Nickel	100	97.29		ug/L		97	85 - 115	

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Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-40016-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab	Sample	ID: LCS	670-91426/1-A

Matrix: Water

Analysis Batch: 91808

Client Sample ID: Lab Control Sample Prep Type: Total Recoverable

Prep Batch: 91426

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Selenium	100	102.0		ug/L		102	85 - 115	
Silver	100	110.7		ug/L		111	85 - 115	
Thallium	100	94.70		ug/L		95	85 - 115	
Zinc	100	98.41		ug/L		98	85 - 115	

Lab Sample ID: LCSD 670-91426/2-A

Matrix: Water

Client Sample ID: Lab Control Sample Dup Prep Type: Total Recoverable

Analysis Batch: 91808							Batch: 9	atch: 91426	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	5000	5162		ug/L		103	85 - 115	0	20
Antimony	100	101.5		ug/L		101	85 - 115	1	20
Arsenic	100	101.8		ug/L		102	85 - 115	0	20
Barium	100	101.0		ug/L		101	85 - 115	0	20
Beryllium	100	98.40		ug/L		98	85 - 115	2	20
Cadmium	100	99.73		ug/L		100	85 - 115	0	20
Chromium	100	96.53		ug/L		97	85 - 115	0	20
Copper	100	101.2		ug/L		101	85 - 115	0	20
Lead	100	97.79		ug/L		98	85 - 115	1	20
Nickel	100	97.66		ug/L		98	85 - 115	0	20
Selenium	100	102.1		ug/L		102	85 - 115	0	20
Silver	100	111.2		ug/L		111	85 - 115	0	20
Thallium	100	95.20		ug/L		95	85 - 115	1	20
Zinc	100	98.62		ug/L		99	85 - 115	0	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 670-92988/1

Matrix: Water

Analysis Batch: 92988

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

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

MB MB

Result Qualifier RL MDL Unit Analyte Dil Fac Prepared Analyzed Oil & Grease (HEM) <1.2 U 5.0 1.2 mg/L 05/29/24 08:25

Lab Sample ID: LCS 670-92988/2

Matrix: Water

Analysis Batch: 92988

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Oil & Grease (HEM)	 40.0	35.20		ma/L		88	78 - 114

Lab Sample ID: LCSD 670-92988/3

Matrix: Water

Analysis Batch: 92988									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Oil & Grease (HEM)	40.0	37.00		mg/L		92	78 - 114	5	18

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Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 670-91591/6 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91591

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 10.0 05/17/24 16:03 Alkalinity <10.0 U 10.0 mg/L

Lab Sample ID: LCS 670-91591/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91591

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 100 89.80 Alkalinity mg/L 90 80 - 120

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 670-91624/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91624

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 5.00 05/20/24 11:41 **Total Dissolved Solids** <5.00 U 5.00 mg/L

Lab Sample ID: LCS 670-91624/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91624

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Total Dissolved Solids 1500 1478 99 80 - 120 mg/L

Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 670-92181/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92181

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Suspended Solids <1.00 U 2.50 1.00 mg/L 05/22/24 15:52

Lab Sample ID: LCS 670-92181/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92181

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 83.00 mg/L 80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 670-93373/39 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 93373

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0200 Ammonia (as N) <0.0140 U 0.0140 mg/L 05/30/24 15:21

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Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 670-93373/66 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 93373

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 05/30/24 15:53 Ammonia (as N) 0.02500 0.0200 0.0140 mg/L

Lab Sample ID: MB 670-93373/93 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 93373

MB MB **MDL** Unit Result Qualifier RL Prepared Analyzed Dil Fac Analyte 0.0200 05/30/24 16:26 Ammonia (as N) 0.02030 0.0140 mg/L

Lab Sample ID: LCS 670-93373/92 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 93373

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit %Rec Ammonia (as N) 1.56 1.430 92 90 - 110 mg/L

Lab Sample ID: LCSD 670-93373/65 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 93373

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 1.520 Ammonia (as N) mg/L 90 - 110 20

Method: 3500-Cr B-2011 - Chromium, Hexavalent

Lab Sample ID: MB 670-91421/1 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 91421

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Cr (VI) <10.0 U 20.0 10.0 ug/L 05/17/24 11:50

Lab Sample ID: MB 670-91421/7 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91421

MR MR Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac <10.0 U 20.0 10.0 ug/L 05/17/24 11:50 Cr (VI)

Lab Sample ID: LCS 670-91421/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91421

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Cr (VI) 100 109.6 ug/L 110 80 - 120

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Method: 3500-Cr B-2011 - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 670-91421/5 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 91421

RPD Spike LCSD LCSD %Rec Added Result Qualifier D %Rec Limits RPD Limit Analyte Unit Cr (VI) 100 109.6 ug/L 110 80 - 120 0 20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 670-92632/2-A **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 92893

MB MB

Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac 0.400 0.180 mg/L 05/24/24 13:08 05/28/24 11:57 <0.180 U Nitrogen, Kjeldahl

Lab Sample ID: LCS 670-92632/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92893

Prep Batch: 92632 LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit D %Rec Nitrogen, Kjeldahl 3.00 2.800 mg/L 93 90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 670-92632/2-A **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 92890

MB MB

RL Result Qualifier MDI Unit Dil Fac Analyte Prepared Analyzed 0.100 05/24/24 13:08 05/28/24 11:57 Total Phosphorus as P <0.0400 U 0.0400 mg/L

Lab Sample ID: LCS 670-92632/1-A

Matrix: Water

Analysis Batch: 92890 Prep Batch: 92632 Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits

Analyte Total Phosphorus as P 1.50 1.650 mg/L 110 90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 670-92436/1-A **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 92438

MB MB

Result Qualifier RI MDL Unit Analyte Prepared Analyzed Dil Fac Chemical Oxygen Demand <10.0 U 20.0 10.0 mg/L 05/23/24 15:00 05/23/24 15:30

Lab Sample ID: LCS 670-92436/4-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 92438

Prep Batch: 92436 LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits

Chemical Oxygen Demand 500 496.8 mg/L 99 90 - 110

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 92632

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 92632

Prep Batch: 92436

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

Method: 410.4 - COD (Continued)

Lab Sample ID: LCSD 670-92436/5-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA Prep Batch: 92436 **Analysis Batch: 92438** Spike LCSD LCSD **RPD**

Added Result Qualifier Limits RPD Limit Analyte Unit %Rec **Chemical Oxygen Demand** 500 501.0 mg/L 100 90 - 110 20

Method: 4500 Cl F-2011 - Chlorine Residual (DPD)

Lab Sample ID: MB 410-511234/1 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 511234

MB MB Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed 0.200 0.0600 mg/L <0.0600 U 05/28/24 23:37 Residual Chlorine

Lab Sample ID: LCS 410-511234/2 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 511234

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Residual Chlorine 1.00 0.9996 mg/L 100 95 - 105

Lab Sample ID: LCSD 410-511234/3 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 511234

Spike LCSD LCSD %Rec **RPD** RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Residual Chlorine 1.00 0.9996 100 95 - 105 10 mg/L

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 670-91668/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91668

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits рΗ 6.00 6.1 SU 101 99 - 101

Method: OIA-1677 - Cyanide, Available (Flow Injection)

Lab Sample ID: MB 410-511203/18 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 511203

MB MB Result Qualifier RI **MDL** Unit Analyte Prepared Analyzed Dil Fac Cyanide, Available <5.00 U 6.00 5.00 ug/L 05/28/24 13:34

Lab Sample ID: LCS 410-511203/16 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 511203

%Rec LCS LCS Spike Added Result Qualifier Unit %Rec Limits Cyanide, Available 50.0 48.61 ug/L 97 82 - 132

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Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Method: OIA-1677 - Cyanide, Available (Flow Injection) (Continued)

Lab Sample ID: LCSD 410-511203/17 **Client Sample ID: Lab Control Sample Dup**

Matrix: Water

Analysis Batch: 511203

Spike LCSD LCSD %Rec **RPD** Result Qualifier Added Limits RPD Limit Analyte Unit %Rec Cyanide, Available 50.0 47.20 ug/L 94 82 - 132 3

Lab Sample ID: 670-40016-2 MS Client Sample ID: Pond Discharge **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 511203

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D %Rec Limits Analyte Unit Cyanide, Available <5.00 U 50.0 49.52 ug/L 99 82 - 130

Lab Sample ID: 670-40016-2 MSD Client Sample ID: Pond Discharge **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 511203

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Limits **RPD** Analyte Added Result Qualifier Unit %Rec Limit Cyanide, Available <5.00 U 50.0 50.00 82 - 130 ug/L 11

Method: SM 5310C - TOC

Lab Sample ID: MB 670-91825/22 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 91825

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Total Organic Carbon** <1.00 U 2.00 1.00 mg/L 05/20/24 18:04 TOC Result 1 2.00 05/20/24 18:04 <1.00 U 1.00 mg/L TOC Result 2 <1.00 U 2.00 1.00 mg/L 05/20/24 18:04

Lab Sample ID: MB 670-91825/7 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91825

MB MB **MDL** Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac **Total Organic Carbon** <1.00 U 2.00 1.00 mg/L 05/20/24 14:29 **TOC Result 1** 2.00 <1.00 U 1.00 mg/L 05/20/24 14:29 **TOC Result 2** <1.00 U 2.00 1.00 mg/L 05/20/24 14:29

Lab Sample ID: LCS 670-91825/20 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 91825

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Total Organic Carbon 9.98 10.15 mg/L 102 80 - 120

Lab Sample ID: LCSD 670-91825/21 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91825									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Organic Carbon	9.98	10.11		ma/L		101	80 - 120		20

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Prep Type: Total/NA

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-40016-1

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A		Decision.		4044
Anai	VSIS	Batch	า: 9	1314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	300.0	_
MB 670-91314/37	Method Blank	Total/NA	Water	300.0	
MB 670-91314/6	Method Blank	Total/NA	Water	300.0	
LCS 670-91314/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-91314/36	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 91315

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-91315/37	Method Blank	Total/NA	Water	300.0	
MB 670-91315/6	Method Blank Method Blank	Total/NA	Water	300.0	
LCS 670-91315/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-91315/36	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 91533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-91533/37	Method Blank	Total/NA	Water	300.0	
MB 670-91533/6	Method Blank	Total/NA	Water	300.0	
LCS 670-91533/35	Lab Control Sample	Total/NA	Water	300.0	
LCS 670-91533/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-91533/36	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 670-91533/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 91534

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-91534/6	Method Blank	Total/NA	Water	300.0	
LCS 670-91534/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-91534/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 91426

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total Recoverable	Matrix Water	Method Prep Batch 200.8	
MB 670-91426/3-A	Method Blank	Total Recoverable	Water	200.8	
LCS 670-91426/1-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 670-91426/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 91808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total Recoverable	Water	200.8	91426
670-40016-1	Pond Discharge	Total Recoverable	Water	200.8	91426
MB 670-91426/3-A	Method Blank	Total Recoverable	Water	200.8	91426
LCS 670-91426/1-A	Lab Control Sample	Total Recoverable	Water	200.8	91426
LCSD 670-91426/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	91426

Prep Batch: 672842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	1631E	
670-40016-2	Pond Discharge	Total/NA	Water	1631E	

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Client: Roam Environmental LLC
Project/Site: TPDES Renewal

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Metals	(Continued))
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L	ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
M	1B 400-672842/3-A	Method Blank	Total/NA	Water	1631E	
L	CS 400-672842/4-A	Lab Control Sample	Total/NA	Water	1631E	
L	CSD 400-672842/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 672929

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 1631E	Prep Batch 672842
670-40016-2	Pond Discharge	Total/NA	Water	1631E	672842
MB 400-672842/3-A	Method Blank	Total/NA	Water	1631E	672842
LCS 400-672842/4-A	Lab Control Sample	Total/NA	Water	1631E	672842
LCSD 400-672842/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	672842

General Chemistry

Analysis Batch: 91421

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method Prep Ba 3500-Cr B-2011	atch
MB 670-91421/1	Method Blank	Total/NA	Water	3500-Cr B-2011	
MB 670-91421/7	Method Blank	Total/NA	Water	3500-Cr B-2011	
LCS 670-91421/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2011	
LCSD 670-91421/5	Lab Control Sample Dup	Total/NA	Water	3500-Cr B-2011	

Analysis Batch: 91591

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 2320B-2011	Prep Batch
MB 670-91591/6	Method Blank	Total/NA	Water	2320B-2011	
LCS 670-91591/4	Lab Control Sample	Total/NA	Water	2320B-2011	

Analysis Batch: 91624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	2540C - 2015	
MB 670-91624/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 670-91624/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 91668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	4500 H+ B-2011	
LCS 670-91668/1	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 91825

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method Prep B SM 5310C	Batch
MB 670-91825/22	Method Blank	Total/NA	Water	SM 5310C	
MB 670-91825/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 670-91825/20	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 670-91825/21	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 92181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch			
670-40016-1	Pond Discharge	Total/NA	Water	2540D-2015				
MB 670-92181/1	Method Blank	Total/NA	Water	2540D-2015				

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Job ID: 670-40016-1

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Client: Roam Environmental LLC Job ID: 670-40016-1

Project/Site: TPDES Renewal

General Chemistry (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 670-92181/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 92199

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 5210 B-2016	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	5210B-2016	
MB 670-92199/26	Method Blank	Total/NA	Water	5210B-2016	
SCB 670-92199/28	Method Blank	Total/NA	Water	5210B-2016	
USB 670-92199/25	Method Blank	Total/NA	Water	5210B-2016	
LCS 670-92199/27	Lab Control Sample	Total/NA	Water	5210B-2016	

Prep Batch: 92436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	410.4	
MB 670-92436/1-A	Method Blank	Total/NA	Water	410.4	
LCS 670-92436/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 670-92436/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 92438

Lab Sample ID 670-40016-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 410.4	Prep Batch 92436
MB 670-92436/1-A	Method Blank	Total/NA	Water	410.4	92436
LCS 670-92436/4-A	Lab Control Sample	Total/NA	Water	410.4	92436
LCSD 670-92436/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	92436

Prep Batch: 92632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	365.2/365.3/365	
MB 670-92632/2-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 670-92632/1-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 92890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	365.4	92632
MB 670-92632/2-A	Method Blank	Total/NA	Water	365.4	92632
LCS 670-92632/1-A	Lab Control Sample	Total/NA	Water	365.4	92632

Analysis Batch: 92893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	351.2	92632
MB 670-92632/2-A	Method Blank	Total/NA	Water	351.2	92632
LCS 670-92632/1-A	Lab Control Sample	Total/NA	Water	351.2	92632

Analysis Batch: 92988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-2	Pond Discharge	Total/NA	Water	1664A	
MB 670-92988/1	Method Blank	Total/NA	Water	1664A	
LCS 670-92988/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 670-92988/	3 Lab Control Sample Dup	Total/NA	Water	1664A	

Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

General Chemistry

Analy	vsis	Batch:	92996
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	Nitrogen,Org	

Analysis Batch: 93373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	350.1	
MB 670-93373/39	Method Blank	Total/NA	Water	350.1	
MB 670-93373/66	Method Blank	Total/NA	Water	350.1	
MB 670-93373/93	Method Blank	Total/NA	Water	350.1	
LCS 670-93373/92	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-93373/65	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 93518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 510680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	360.1	

Analysis Batch: 511203

Lab Sample ID 670-40016-2	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method OIA-1677	Prep Batch
MB 410-511203/18	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-511203/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCSD 410-511203/17	Lab Control Sample Dup	Total/NA	Water	OIA-1677	
670-40016-2 MS	Pond Discharge	Total/NA	Water	OIA-1677	
670-40016-2 MSD	Pond Discharge	Total/NA	Water	OIA-1677	

Analysis Batch: 511234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-40016-1	Pond Discharge	Total/NA	Water	4500 CI F-2011	
MB 410-511234/1	Method Blank	Total/NA	Water	4500 CI F-2011	
LCS 410-511234/2	Lab Control Sample	Total/NA	Water	4500 CI F-2011	
LCSD 410-511234/3	Lab Control Sample Dup	Total/NA	Water	4500 CI F-2011	

Client Sample ID: Pond Discharge

Date Collected: 05/16/24 12:30 Date Received: 05/17/24 09:20

Client: Roam Environmental LLC

Project/Site: TPDES Renewal

Lab Sample ID: 670-40016-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	300.0			91314	YGS	EET ORL	05/17/24 23:48
Total/NA	Analysis	300.0		1	91315	YGS	EET ORL	05/17/24 23:48
Total/NA	Analysis	300.0		10	91534	YGS	EET ORL	05/20/24 13:41
Total/NA	Prep	1631E			672842	VLC	EET PEN	05/21/24 14:14 - 05/22/24 08:30 ¹
Total/NA	Analysis	1631E		1	672929	VLC	EET PEN	05/28/24 12:11
Total Recoverable	Prep	200.8			91426	JR	EET ORL	05/17/24 14:34
Total Recoverable	Analysis	200.8		1	91808	JA	EET ORL	05/20/24 14:30
Total Recoverable	Prep	200.8			91426	JR	EET ORL	05/17/24 14:34
Total Recoverable	Analysis	200.8		10	91808	JA	EET ORL	05/20/24 16:13
Total/NA	Analysis	2320B-2011		1	91591	IAD	EET ORL	05/17/24 21:48
Total/NA	Analysis	2540C - 2015		1	91624	SM	EET ORL	05/20/24 11:41
Total/NA	Analysis	2540D-2015		1	92181	DGS	EET ORL	05/22/24 15:52
Total/NA	Analysis	350.1		1	93373	CHL	EET ORL	05/30/24 16:53
Total/NA	Analysis	3500-Cr B-2011		2	91421	IAD	EET ORL	05/17/24 11:50
Total/NA	Prep	365.2/365.3/365			92632	DGS	EET ORL	05/24/24 13:08
Total/NA	Analysis	351.2		1	92893	LD	EET ORL	05/28/24 12:19
Total/NA	Analysis	360.1		1	510680	USAE	ELLE	05/27/24 10:56
Total/NA	Prep	365.2/365.3/365			92632	DGS	EET ORL	05/24/24 13:08
Total/NA	Analysis	365.4		1	92890	LD	EET ORL	05/28/24 12:19
Total/NA	Prep	410.4			92436	VJW	EET ORL	05/23/24 15:00
Total/NA	Analysis	410.4		1	92438	VJW	EET ORL	05/23/24 15:30
Total/NA	Analysis	4500 CI F-2011		1	511234	UDS7	ELLE	05/28/24 23:43
Total/NA	Analysis	4500 H+ B-2011		1	91668	IAD	EET ORL	05/20/24 13:55
Total/NA	Analysis	5210 B-2016		1	92199	ZM	EET ORL	05/17/24 16:52
Total/NA	Analysis	5210B-2016		1	92199	ZM	EET ORL	05/17/24 15:13
Total/NA	Analysis	Nitrogen,Org		1	92996	CHL	EET ORL	05/29/24 08:29
Total/NA	Analysis	SM 3500 CR B		1	93518	CHL	EET ORL	05/31/24 12:05
Total/NA	Analysis	SM 5310C		1	91825	IAD	EET ORL	05/20/24 19:47

Client Sample ID: Pond Discharge

Date Collected: 05/16/24 12:30 Date Received: 05/17/24 09:20

Lab Sample ID: 670-40016-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	1631E			672842	VLC	EET PEN	05/21/24 14:14 - 05/22/24 08:30 ¹
Total/NA	Analysis	1631E		1	672929	VLC	EET PEN	05/28/24 12:19
Total/NA	Analysis	1664A		1	92988	BG	EET ORL	05/29/24 08:25
Total/NA	Analysis	OIA-1677		1	511203	UJE2	ELLE	05/28/24 13:36

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Lab Chronicle

Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984 EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001 ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-40016-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Oklahoma	State	2308	08-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-28-25
Washington	State	C1089	10-19-24

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
lowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

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Eurofins Orlando

Accreditation/Certification Summary

Client: Roam Environmental LLC Job ID: 670-40016-1 Project/Site: TPDES Renewal

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-40016-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET ORL
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.8	Metals (ICP/MS)	EPA	EET ORL
1664A	HEM and SGT-HEM	1664A	EET ORL
2320B-2011	Alkalinity, Total	SM	EET ORL
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET ORL
2540D-2015	Total Suspended Solids (Dried at 103-105°C)	SM	EET ORL
350.1	Nitrogen, Ammonia	EPA	EET ORL
3500-Cr B-2011	Chromium, Hexavalent	SM	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
360.1	Oxygen, Dissolved	EPA	ELLE
365.4	Phosphorus, Total	EPA	EET ORL
410.4	COD	EPA	EET ORL
4500 CI F-2011	Chlorine Residual (DPD)	SM	ELLE
4500 H+ B-2011	рН	SM	EET ORL
5210 B-2016	CBOD, 5-Day	SM	EET ORL
5210B-2016	BOD, 5 Day	SM	EET ORL
Nitrogen,Org	Nitrogen, Organic	EPA	EET ORL
OIA-1677	Cyanide, Available (Flow Injection)	OI CORP	ELLE
SM 3500 CR B	Chromium, Trivalent	SM	EET ORL
SM 5310C	TOC	SM	EET ORL
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.8	Preparation, Total Recoverable Metals	EPA	EET ORL
351.2	Nitrogen, Total Kjeldahl	EPA	EET ORL
365.2/365.3/365	Phosphorus, Total	EPA	EET ORL
410.4	COD	EPA	EET ORL

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Orlando

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Sample Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-40016-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-40016-1	Pond Discharge	Water	05/16/24 12:30	05/17/24 09:20
670-40016-2	Pond Discharge	Water	05/16/24 12:30	05/17/24 09:20

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Eurofins Orlando

481 Newburyport Avenue

Chain of Custody Record

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Company:	006	Phone: 806-395-7495 Pwsib:				lohn.Builes@et.eurofinsus.com													ob #:
Roam Environmental LLC									An	alys	is Re	ques	ted						
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			Type (V=water,	활	Perform MS/ 1631E - Local	16	62	oca	51.2	Salc Ak	R B	WA	Nitrogen, Org	2540D - Total	9	9 E	를 [
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Non-Hazard Flammable Skin Irritant Po	oison B Unkn	own -	Radiological		- 1			n То (y Lab			7		e For Months
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Eurofins Orlando

481 Newburyport Avenue

Chain of Custody Record

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lient Information	Sampler:	^	111		PM: iles, Jo	ahn					Carrier T	racking N	o(s):			COC No:
lient Information ient Contact:	Phone:	ue H	ridd	E-M	,	onn					State of	Origin:			_	670-18561-7577.2 Page:
lair Shackford	806.	395-	Yidd 7495		nn.Buil	les@e	t.eur	ofinsu	s.com		Oldio or	Origin.				Page 2 of 2
ompany: oam Environmental LLC			PWSID:		T				Anal	vsis Re	equeste	d				Job #:
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ACX-Rock Creek - Pond Discharge					Sam	2 E	ane	-							5	
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mple Identification	Sample Date	Time	G=grab) BT	Tissue, A=Ai) 🖺 (5310C	166	SM4	300						[학	Special Instructions/Note:
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Non-Hazard Flammable Skin Irritant Pois	on B Unkn	own 🗆 ,	Radiological					n To C			Disposal					ve For Months
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Ver. 06/08/2021

Chain of Custody Record

Eurofins Orlando

481 Newburyport Avenue	Chain of Custody Record	v Record		. eurofins
Altamonte Springs, FL 32701 Phone 407-339-5984 Fax: 407-260-6110				
Client Information (Sub Contract Lab)	Sampler	Lab PM Builes, John	Carrier Tracking No(s):	COC No: 670-29386 1
Client Contact:	Phone:	E-Mail.	State of Origin.	Page:
Snipping/Receiving		John Builes@et.eurofinsus com	Florida	Page 1 of 1
Company Eurofins Environment Testing Southeast L		Accreditations Required (See note): NELAP - Texas		Job #: 670-40016-1
Address: 3355 McLemore Drive	Due Date Requested. 5/31/2024	Analys	Analysis Requested	Preservation Codes.
City	TAT Requested (days)			
State, 20 FL, 32514	T			
Phone 850-474-1001(Tel) 850-478-2671(Fax)	PO#:	((
Email	WO#;			LS
Project Name: TPDES Renewal	Project #: 67004839			ıenis)r
Site:	SSOW#:	sD (x		of cor
	Sample Matrix	ered MS/M		nbet
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	X			
Pond Discharge (670-40016-1)	5/16/24 12.30 Water	×		2
Pond Discharge (670-40016-2)	5/16/24 12 30 Water Eastern	ter X		2
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory	ent Testing Southeast, LLC places the ownership of method	analyte & accreditation compliance upon our su	bcontract laboratories. This sample shipmen	it is forwarded under chain-of-custody If the laboratory

International and a service of the control of the c Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification

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	Unconfirmed					Return To Client	Disposal By Lab	Archive For	Months
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	Empty Kit Relinquished by			Date	Ë	Time	Method of Shipment:	lent	
	Relinquished by		Date/Time: 5 17 /21	009/	Сотрапу	Received by:	Date	Date/Time:	Company
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31/2	Relinquished by		Date/Time.		Company	Received by	Date	Date/Time: \$18124 8:32	Сотрапу
024	Custody Seals Intact: Custody Seal No	Custody Seal No				Cooler Temperature(s) °C and Other Remarks: 7.3 'L' IMM	emarks: 7.3 C	arm	

. eurofins

Chain of Custody Record

481 Newburyport Avenue Altamonte Springs, FL 32701 Phone 407-339-5984 Fax: 407-260-6110

Eurofins Orlando

COC No.
Carrier Tracking No(s):
NG 46
Samilar

Client Contact Phone Shipping/Receiving Phone Company Euroffins Environment Testing Southeast L. Address. 3355 McLemore Drive 5/21/2024 3355 McLemore Drive 5/21/2024 City TAT Requested (days) Pensacola State, Zip FL, 32514 Prof. Phone Prof. 850-474-1001(Tel) 850-478-2671(Fax) WO #: Email Project Name: McKinnon Groves SSOW#: Initial SSOW#:	d (days)	Matr	E-Mail Todd Rea@et.eurofin. Accreditations Requi	Todd Rea@et.eurofinsus com Accreditations Required (See note): NELAP - Florida Anal	om se note):	State of Origin Florida		Page: Page 1 of 1
ng/Receiving v s Environment Testing Southeast L is Cola cola ip 7 74-1001(Tel) 850-478-2671(Fax) Name: non Groves	d (days)	Matr	odd Rea@et Accreditation NELAP -	eurofinsus constructions Required (Se	om se note):	Florida		Page 1 of 1
y ns Environment Testing Southeast L McLemore Drive cola pp pc 514 74-1001(Tel) 850-478-2671(Fax) Name:	d (days)		Accreditation	Florida	e note):			
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Sample Identification - Client ID (Lab ID)	Sample Ite Time	Type (wewater Sesoild. (C=comp.) BT=Tissue, A=Alf.)	Field Filtered MSM morrored	0741010041010			TedmuM lstoT	Special Instructions/Note:
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CU-8 (0'-0 5') (670-40001-110) 5/15/24	Eastern	Solid		×				
CU-9 (0'-0.5') (670-40001-143) 5/16/24	Eastern	Solid		×				
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Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) does not currently maintain accreditation in the State of Origin listed above for analysis/ests/matrix being analyzed the samples must be shipped back to the Eurotins Environment 1 esting or oriner instructions will be provided to Eurofins Environment Testing Southeast, LLC attention immedately. If all requested accreditations are current to date return the signed Chain of Oustody attesting to said compliance to Eurofins Environment Testing Southeast, LLC. Possible Hazard Identification

Unconfirmed				Return To Client Dispo	Uisposal By Lab	Archive For	Months
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Custody Seals Intact: Custody Seal No				Cooler Temperature(s) °C and Other Remarks. 5, 5 %	5.2%	AM :	
		-					Ver 06/08/2021

Ver 06/08/2021

Date/Time: 5118124

Cooler Temperature(s) °C and Other Remarks. 3. 32.

Received by: Received by:

Company

Date/Time:

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481 Newburyport Avenue Altamonte Springs FL 32701 Phone 407-339-5984 Fax: 407-260-6110

Eurofins Orlando

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Chain of Custody Record	

	Sampler			Lab PM:			Ů.	Carrier Tracking No(s):	No(s):	COC No.	
Client Information (Sub Contract Lab)				Weinberg Amy	g Amy					670-29386 1	
Olient Contact: Shinonor/Receiving	Phone:			E-Mail amy wei	nbera@	E-Mail amy weinberd@et.eurofinsus com		State of Origin. Florida		Page: Page 1 of 1	
Company			-	Acc	editation	Accreditations Required (See note):				Job #:	
Eurofins Environment Testing Southeast L				뿐	NELAP - Florida	lorida				670-40094-1	
Address. 3355 McLemore Drive,	Due Date Requested 5/28/2024	73					Analysis Requested	ested		Preservation Codes	des
Oity Pensacola	TAT Requested (days)	(s)									
State, Zip FL, 32514									******		
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			(0	p						
Email	WO #:			N 10 8						rs	
Project Name: Cyanides	Project #: 66018534			ie (Ye	-					***************************************	
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to accreditation accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC.	nt Testing Southeast, L nalysis/tests/matrix bein on immediately If all n	LC places the owing analyzed the sequested accredi	nership of me amples must l tations are cur	thod analyte & arbe shipped back rent to date, return	creditatic the Eur n the sígr	in compliance ofins Environ ied Chain of	s upon our subcontract la ment Testing Southeast, Custody attesting to said	tboratories. The LLC laboratoricompliance to	is sample shipme / or other instructiv Eurofins Environr	nt is forwarded under cha ons will be provided. Any nent Testing Southeast, I	in-of-custody If the laboratory changes to accreditation .L.C.
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inquished by:

Custody Seal No.

Custody Seals Intact: △ Yes △ No

Ver 06/08/2021

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Chain of Custody Record

481 Newburyport Avenue Altamonte Springs, FL 32701 **Eurofins Orlando**

Phone 407-339-5984 Fax. 407-260-6110				
	Sampler	Lab PM:	Carrier Tracking No(s):	COC No:
Client Information (Sub Contract Lab)	<u>.</u>	Hornsby, Jess		670-29386 1
Client Contact:	Phone:	E-Mail	State of Origin.	Page
Shipping/Receiving	7	Jess Hornsby@et.eurofinsus com	Florida	Page 1 of 2
Company.		Accreditations Required (See note):		Job #:

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	Client Information (Sub Contract Lab)	Sampler			Lab PM: Hornsb	Lab PM: Hornsby, Jess	SS				<u>)</u>	amer ira	Carrier Tracking No(s):	÷.	υφ	670-29386 1
		Phone:			E-Mail						S	State of Origin.	gin.		Ġ.	Page:
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	Company					Accredit	ations	Accreditations Required (See note):	(See not	e);					3	Job #:
	Eurofins Environment Testing Southeast L					NELAP - Florida	- Flo	rida							9	670-40100-1
L	Address: 3355 McLemore Drive, ,	Due Date Requested 5/28/2024	70						An	Analysis Requested	Redu	ested			<u>a , </u>	Preservation Codes
	Oiy Pensacola	TAT Requested (days)	/s)					<u> </u>								
12/	State Zip: FL, 32514					***************************************										
, <u>-</u> ~	Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO#;				(0										
1 md	Email:	WO#:													S.	
	Project Name BRL Sediment (Brevard Co)	Project #: 67004953					sepioi			***************************************					enistn	
A.T.	Site:	SSOW#:					daeH 9								***************************************	Other -
<u> </u>			Sample	Sample Type (C=comp,	Matrix (w=water S=solid, O=waste/oil,	eld Filtered : MS/M myotre	S_A1318\A13	70E_AgChem 						***************************************	redmuN Isto	
_	Sample Identification - Client ID (Lab ID)	Sample Date	aŭ	G=grab) BT=Tlssus, A=,	BT=Tissue, A=Air)		8	+	1	+		-	\perp	1	1	Special instructions/Note.
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	VC-002-C (670-40100-4)	5/17/24	10 35 Eastern		Solid		×	×							_	
f 41	VC-003-C (670-40100-6)	5/16/24	14 45 Eastern	•	Solid		×	×								
torio	VC-004-C (670-40100-8)	5/16/24	16 05 Eastern		Solid		×	×							_	
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	Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to accreditation does not currently maintain accreditation in the State of Origin listed above for analysis/lests/markx being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation	t Testing Southeast, Lalysis/tests/matrix bein	LC places the or	ownership of m e samples mus	nethod analyte	& accredack to the	ditation Eurofi	complian ns Enviro	ce upon	our subca	ontract la utheast,	oratories LC labor	. This sai	nple shipn her instruc	nent is for	places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory nanalyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation
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status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting Southeast, LLC attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting Southeast, LLC attention immediately if all requested accreditations are current to date, return the signed Chain of Custody attesting Southeast, LLC.

	Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ssed if samples are	retained longer than 1 m	ionth)
	Unconfirmed			Return To Client Dispo	Disposal By Lab	Archive For	Months
	Deliverable Requested 1, II, III IV Other (specify)	Primary Deliverable Rank 2	ank 2	Special Instructions/QC Requirements			
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5/	Relinquished by	Date/Time:	Company	Received by:	Date/Time:		Сотрапу
31/2	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Date/Time: 71/8/12/1 8:72	Сотрапу
024	Custody Seals Intact: Custody Seal No	-		Cooler Temperature(s) ^o C and Other Remarks. 3, 3 C MW	1 2.28	NO	

. eurofins

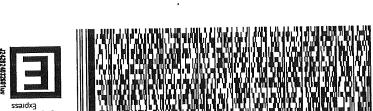
Chain of Custody Record

		10	107-260-6110
Eurofins Orlando	481 Newburyport Avenue	Altamonte Springs FL 32701	Phone 407-339-5984 Fax: 407-260-6110

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Client Information (Sub Contract Lab)	Odilipie Odilipie			Hornsby	by Jess	W			Š	i de la comi	(e)ON 61		670-29386.2	
	Phone:			E-Mail Jess I	lornsby	Øet.eu	E-Mail Jess Hornsby@et.eurofinsus com	Loo	±S Œ	State of Origin: Florida			Page ^r Page 2 of 2	
Company: Eurofins Environment Testing Southeast L		ANTHUMEN SOCIETY STREET			Accreditations Requ NELAP - Florida	ons Requ	Accreditations Required (See note): NELAP - Florida	noter):					Job #: 670-40100-1	
Address: 3355 McLemore Drive,	Due Date Requested 5/28/2024	ps						Analys	Analysis Requested	sted			Preservation Codes	Sodes.
City	TAT Requested (days)	ıys)				_	<u></u>		-					
State, Zip FL, 32514						xiM 8	FL (Holo							
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Project Name: BRL Sediment (Brevard Co)	Project #: 67004953				l 10 es		O qe14_					······	ıənlatı	
Site:	SSOW#:				v) as		ัร ๊อм						of coi	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp,	Matrix (w=wator S=solid. O=wastololi, BT=Tissuo. A=Air)	Field Filtered : M\SM m101199	2_A1318\A1318 	энчтомэнчт	and an additional design					TedmuM IstoT	Special Instructions/Note.
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Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to accreditation does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.	ent Testing Southeast, I nalysis/tests/matrix bei tion immediately If all	LC places the cng analyzed the requested accre	ownership of me s samples must ditations are cu	thod analyte 8 be shipped bac rrent to date re	accredit k to the E turn the s	ation com Eurofins E igned Ch	ipliance up Environme nain of Cus	oon our su nt Testing tody atte	bcontract lab Southeast, L	oratories. T LC laborato ompliance t	his sample ry or other o Eurofins	e shipmen instructio Environm	t is forwarded under on the swill be provided of the formal feating Southeas	nain-of-custody If the labora's y changes to accreditation L.C.
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Unconfirmed] Retun	Return To Client	ent	siO [Disposal By Lab	ab	וֹנ	Archive For	Months
Deliverable Requested 1, II, III, IV, Other (specify)	Primary Deliverable Rank.	able Rank. 2			Spec	ial Instr	'uctions/	QC Rec	Special Instructions/QC Requirements					
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3322 WCLEMORE DR EUROFINS PENSACOLA

ALTAMONTE SPRINGS, FL 32701

TO RECEIVING

481 NEWBURYPORT AVE

BILL SENDER

SHIP DATE: 17MAY24 ACTWGT 25 00 LB CAD 255694836/INET4730

\$869-6EE (LOP)

Eurofins Orlando

481 Newburyport Avenue Altamonte Springs, FL 32701 Phone: 407-339-5984 Fax: 407-260-6110 **Chain of Custody Record**



💸 eurofins

Client Information (Sub Contract Lab)				Build	es, Joh	hn								o(s):			COC No: 670-29372.1		
Hent Contact:	. Phone:			E-Ma								te of Or	rigin:				Page:	-	
hipping/Receiving				John				insus.			FI	orida					Page 1 of 1 Job #:		
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Sample Identification - Client ID (Lab ID)	Sample Date	Time		BT=Tissue, A=Air	Field	360.1	150	1677					1 1			P	Special li	nstructions/Not	te:
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Pond Discharge (670-40016-1)	5/16/24	Eastern		Water		×	Х									2			
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Note: Since laboratory accreditations are subject to change, Eurofins Environ	nment Testing Southeast,	LLC places the	ownership of r	nethod, analyte	& accn	editatio	n com	oliance u	pon our	subco	ntract lab	oratorie	s. This	sample	shipme	nt is fo	orwarded under chair	n-of-custody. If the	laboratory
does not currently maintain accreditation in the State of Origin listed above for	or analysis/tests/matrix bei	ng analyzed, th	ne samples mu	st be shipped t	ack to t	the Euro	ofins E	nvironm	ent Testi	ing Sou	utheast, L	LC labo	oratory o	r other	instructi	ons wi	It be provided. Any	changes to accredit	tation
status should be brought to Eurofins Environment Testing Southeast, LLC at	ttention immediately. If all	requested acci	reditations are	current to date,	return t	the sign	ied Chi	ain of Cu	stody at	itesting	to said o	omplian	ice to E	urofins	Environ	nent I	esting Southeast, L	LC.	
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Unconfirmed							Return	To CI	ient		Dis	posal i	By Lai	,		Arch	ive For	Months	
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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-40016-1

Login Number: 40016 List Source: Eurofins Orlando

List Number: 1

Creator: Lavardera, Angelina

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Analyses listed on COC; individual samples not designated for specific analyses
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-40016-1

Login Number: 40016 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC List Number: 2 List Creation: 05/18/24 03:24 PM

Creator: Kanagy, Nicholas

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required (=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from	N/A	

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WV)?

Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-40016-1

List Source: Eurofins Pensacola
List Number: 3
List Creation: 05/18/24 03:51 PM

Creator: Pardonner, Brett

Creator: Pardonner, Brett		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

5/31/2024

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JOB DESCRIPTION

PREPARED FOR

Roam Environmental LLC

Edmond, Oklahoma 73013 Generated 6/11/2024 11:55:27 AM

Attn: Blair Shackford

3204 Hogan Ct

ANALYTICAL REPORT

TPDES Renewal

JOB NUMBER

670-39584-1

Eurofins Orlando 481 Newburyport Avenue Altamonte Springs FL 32701

Eurofins Orlando

Job Notes

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

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

Authorization

Generated 6/11/2024 11:55:27 AM

Authorized for release by John Builes, Project Manager John.Builes@et.eurofinsus.com (561)558-4549

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Client: Roam Environmental LLC Project/Site: TPDES Renewal

Laboratory Job ID: 670-39584-1

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QC Association Summary	21
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Definitions/Glossary

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Qualifiers

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

U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier **Qualifier Description**

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

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Result Detected in the Unseeded Control blank (USB).

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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

Seeded Control Blank (SCB) Recovery Low s

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL 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)

Negative / Absent NEG POS Positive / Present

Practical Quantitation Limit POI

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Eurofins Orlando

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Case Narrative

Client: Roam Environmental LLC

Project: TPDES Renewal

Job ID: 670-39584-1 Eurofins Orlando

Job Narrative 670-39584-1

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

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

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

Receipt

The samples were received on 5/10/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

HPLC/IC

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

Metals

Method 1631E: The following samples were diluted due to the nature of the sample matrix: Pond Discharge (670-39584-1) and Pond Discharge (670-39584-2). Elevated reporting limits (RLs) are provided. The samples appears to be dirty.

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

General Chemistry

Method 3500_CR_B: The following sample(s) was preserved in hold extending analysis holding time. Preservation buffer added by laboratory.: Pond Discharge (670-39584-1) and (678-19560-A-1).

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

Eurofins Orlando

Job ID: 670-39584-1

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Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39584-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Fluoride	1.45		0.400	0.200	mg/L		300.0	Total/NA
Nitrate as N	0.208	J	0.400	0.200	mg/L	1	300.0	Total/NA
Chloride	61.8		0.400	0.200	mg/L	1	300.0	Total/NA
Nitrite as N	0.217	J	0.400	0.200	mg/L	1	300.0	Total/NA
Sulfate	235		10.0	5.00	mg/L	10	300.0	Total/NA
Mercury	0.00866		0.00250	0.00100	ug/L	1	1631E	Total/NA
Aluminum	598		40.0	3.40	ug/L	1	200.8	Total
								Recoverabl
Arsenic	4.56		4.00	0.390	ug/L	1	200.8	Total
								Recoverabl
Barium	149		4.00	0.368	ug/L	1	200.8	Total
Chromium	2.76		2.00	0.388	ua/l	1	200.8	Recoverabl Total
Chiomium	2.70		2.00	0.300	ug/L	'	200.0	Recoverable
Copper	5.98		2.00	0.643	ua/L	1	200.8	Total
					J.			Recoverabl
Lead	0.850	J	2.00	0.243	ug/L	1	200.8	Total
								Recoverabl
Nickel	0.963	J	4.00	0.915	ug/L	1	200.8	Total
Calanium	2.04		4.00	0.400	/1	4	000.0	Recoverable
Selenium	2.01	J	4.00	0.483	ug/L	1	200.8	Total Recoverabl
Zinc	22.4		4.00	1 29	ug/L	1	200.8	Total
21110	22.7		4.00	1.20	ug/L	•	200.0	Recoverable
Iron	0.672		0.0250	0.0124	mg/L	1	200.8	Total
					· ·			Recoverabl
Manganese	0.0183		0.00100	0.000987	mg/L	1	200.8	Total
								Recoverabl
Magnesium	31.6		1.00	0.0743	mg/L	10	200.8	Total
Alkalinity	116		10.0	10.0	mg/L	1	2320B-2011	Recoverabl Total/NA
Total Dissolved Solids	536		5.00		mg/L	1	2540C - 2015	Total/NA
Total Suspended Solids	65.6		4.00		mg/L	1	2540D-2015	Total/NA
Ammonia (as N)	0.0240		0.0200	0.0140	•		350.1	Total/NA
	2.69				-		351.2	Total/NA
Nitrogen, Kjeldahl	6.57		0.400 0.400	0.180	-	1	360.1	Total/NA
Oxygen, Dissolved		. ПГ 		0.400	-	1		
Total Phosphorus as P	0.762		0.100	0.0400	-	1	365.4	Total/NA
Chemical Oxygen Demand	39.1	e	20.0		mg/L	1	410.4	Total/NA
pH		HF	0.02	0.01		1	4500 H+ B-2011	Total/NA
Temperature	18.6		0.1		Deg. C	1	4500 H+ B-2011	Total/NA
Carbonaceous Biochemical Oxygen Demand	4.44		2.00		mg/L	1	5210 B-2016	Total/NA
Biochemical Oxygen Demand	6.81	b	2.00		mg/L	1	5210B-2016	Total/NA
Nitrogen, Organic	2.67		0.400	0.200	mg/L	1	Nitrogen,Org	Total/NA
Total Organic Carbon	4.49		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 1	4.51		2.00	1.00	mg/L	1	SM 5310C	Total/NA
TOC Result 2	4.47		2.00	1.00	mg/L	1	SM 5310C	Total/NA

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39584-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00497		0.00250	0.00100	ug/L	1	_	1631E	Total/NA
Oil & Grease (HEM)	1.3	J	5.0	1.2	mg/L	1		1664A	Total/NA
Cvanide. Available	7.73		6.00	5.00	ua/L	1		OIA-1677	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39584-1 Date Collected: 05/09/24 12:30

Matrix: Water Date Received: 05/10/24 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	1.45		0.400	0.200	mg/L			05/10/24 21:39	1
Nitrate as N	0.208	J	0.400	0.200	mg/L			05/10/24 21:39	1
Chloride	61.8		0.400	0.200	mg/L			05/10/24 21:39	1
Nitrite as N	0.217	J	0.400	0.200	mg/L			05/10/24 21:39	1
Sulfate	235		10.0	5.00	mg/L			05/13/24 11:48	10

Method: EPA 1631E - Mercury,	Low Level (CVAFS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00866	0.00250	0.00100	ug/L		05/14/24 14:12	05/15/24 11:48	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	598		40.0	3.40	ug/L		05/11/24 16:50	05/13/24 13:45	1
Antimony	<0.407	U	2.00	0.407	ug/L		05/11/24 16:50	05/13/24 13:45	1
Arsenic	4.56		4.00	0.390	ug/L		05/11/24 16:50	05/13/24 13:45	1
Barium	149		4.00	0.368	ug/L		05/11/24 16:50	05/13/24 13:45	1
Beryllium	<0.320	U	1.00	0.320	ug/L		05/11/24 16:50	05/13/24 13:45	1
Cadmium	<0.245	U	1.00	0.245	ug/L		05/11/24 16:50	05/13/24 13:45	1
Chromium	2.76		2.00	0.388	ug/L		05/11/24 16:50	05/13/24 13:45	1
Copper	5.98		2.00	0.643	ug/L		05/11/24 16:50	05/13/24 13:45	1
Lead	0.850	J	2.00	0.243	ug/L		05/11/24 16:50	05/13/24 13:45	1
Nickel	0.963	J	4.00	0.915	ug/L		05/11/24 16:50	05/13/24 13:45	1
Selenium	2.01	J	4.00	0.483	ug/L		05/11/24 16:50	05/13/24 13:45	1
Silver	<0.0370	U	1.00	0.0370	ug/L		05/11/24 16:50	05/13/24 13:45	1
Thallium	<0.349	U	1.00	0.349	ug/L		05/11/24 16:50	05/13/24 13:45	1
Zinc	22.4		4.00	1.29	ug/L		05/11/24 16:50	05/13/24 13:45	1
Iron	0.672		0.0250	0.0124	mg/L		05/11/24 16:50	05/13/24 13:45	1
Manganese	0.0183		0.00100	0.000987	mg/L		05/11/24 16:50	05/13/24 13:45	1
Magnesium	31.6		1.00	0.0743	mg/L		05/11/24 16:50	05/14/24 13:51	10

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B-2011)	116		10.0	10.0	mg/L			05/13/24 12:43	1
Total Dissolved Solids (SM 2540C - 2015)	536		5.00	5.00	mg/L			05/15/24 10:53	1
Total Suspended Solids (SM 2540D-2015)	65.6		4.00	2.00	mg/L			05/15/24 12:32	1
Ammonia (as N) (EPA 350.1)	0.0240		0.0200	0.0140	mg/L			05/23/24 00:12	1
Cr (VI) (SM 3500-Cr B-2011)	<20.0	U	40.0	20.0	ug/L			05/13/24 13:30	2
Nitrogen, Kjeldahl (EPA 351.2)	2.69		0.400	0.180	mg/L		05/16/24 15:44	05/17/24 15:54	1
Oxygen, Dissolved (EPA 360.1)	6.57	HF	0.400	0.400	mg/L			05/14/24 14:05	1
Total Phosphorus as P (EPA 365.4)	0.762		0.100	0.0400	mg/L		05/16/24 15:44	05/17/24 15:54	1
Chemical Oxygen Demand (EPA 410.4)	39.1		20.0	10.0	mg/L		05/13/24 12:30	05/13/24 13:30	1
Residual Chlorine (SM 4500 CI F-2011)	<0.0600	U HF	0.200	0.0600	mg/L			05/13/24 23:58	1
pH (SM 4500 H+ B-2011)	6.8	HF	0.02	0.01	SU			05/10/24 15:00	1
Temperature (SM 4500 H+ B-2011)	18.6	HF	0.1	0.1	Deg. C			05/10/24 15:00	1
Carbonaceous Biochemical Oxygen Demand (SM 5210 B-2016)	4.44	b	2.00	2.00	mg/L			05/10/24 13:41	1
Biochemical Oxygen Demand (SM 5210B-2016)	6.81	b	2.00	2.00	mg/L			05/10/24 17:40	1

Client Sample Results

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Client Sample ID: Pond Discharge

Lab Sample ID: 670-39584-1 Date Collected: 05/09/24 12:30

Matrix: Water

Date Received: 05/10/24 09:30

General Chemistry (Continued)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Organic (EPA	2.67	0.400	0.200	mg/L			05/17/24 17:34	1
Nitrogen,Org)								
Cr (III) (SM 3500 CR B)	<10.0 U	20.0	10.0	ug/L			06/11/24 11:33	1
Total Organic Carbon (SM 5310C)	4.49	2.00	1.00	mg/L			05/11/24 00:11	1
TOC Result 1 (SM 5310C)	4.51	2.00	1.00	mg/L			05/11/24 00:11	1
TOC Result 2 (SM 5310C)	4.47	2.00	1.00	mg/L			05/11/24 00:11	1

Client Sample ID: Pond Discharge Lab Sample ID: 670-39584-2

Date Collected: 05/09/24 12:30 **Matrix: Water**

Date Received: 05/10/24 09:30

Method: EPA 1631E - Mercury,	Low Level (CVAFS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00497	0.00250	0.00100	ug/L		05/14/24 14:12	05/15/24 12:11	1
 								

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM) (1664A)	1.3	J	5.0	1.2	mg/L			05/16/24 09:54	1
Cyanide, Available (OI CORP	7.73		6.00	5.00	ug/L			05/21/24 09:47	1
OIA-1677)									

6/11/2024

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-90138/37

Matrix: Water

Analysis Batch: 90138

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

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrate as N 0.400 05/10/24 18:15 <0.200 U 0.200 mg/L Nitrite as N <0.200 U 0.400 0.200 mg/L 05/10/24 18:15

Lab Sample ID: MB 670-90138/6

Matrix: Water

Analysis Batch: 90138

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.200	U	0.400	0.200	mg/L			05/10/24 09:31	1
Nitrite as N	< 0.200	U	0.400	0.200	ma/l			05/10/24 09:31	1

Lab Sample ID: LCS 670-90138/35 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 90138

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	 2.00	1.981		mg/L		99	90 - 110	
Nitrite as N	2.00	2.197		mg/L		110	90 - 110	

Lab Sample ID: LCSD 670-90138/36

Matrix: Water

Analysis Batch: 90138

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate as N	2.00	1.990		mg/L		99	90 - 110	0	20	
Nitrite as N	2 00	2 194		ma/L		110	90 - 110	0	20	

Lab Sample ID: MB 670-90139/37 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 90139

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/10/24 18:15	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/10/24 18:15	1
Sulfate	<0.500	U	1.00	0.500	mg/L			05/10/24 18:15	1

Lab Sample ID: MB 670-90139/6 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90139

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/10/24 09:31	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/10/24 09:31	1
Sulfate	< 0.500	U	1.00	0.500	mg/L			05/10/24 09:31	1

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Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 670-90139/35

Matrix: Water

Analysis Batch: 90139

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Fluoride 2.00 2.180 mg/L 109 90 - 110 Chloride 4.00 3.976 mg/L 99 90 - 110 Sulfate 10.0 10.35 mg/L 90 - 110 103

Spike

Added

2.00

4.00

10.0

Lab Sample ID: LCSD 670-90139/36

Matrix: Water

Analysis Batch: 90139

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

%Rec **RPD** Result Qualifier Unit D %Rec Limits RPD Limit mg/L 104 90 - 110 5 20

90 - 110

90 - 110

0

99

104

Lab Sample ID: MB 670-90358/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

LCSD LCSD

mg/L

mg/L

2.079

3.974

10.37

Analyte

Fluoride

Chloride

Sulfate

Analysis Batch: 90358

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.200	U	0.400	0.200	mg/L			05/13/24 09:48	1
Chloride	<0.200	U	0.400	0.200	mg/L			05/13/24 09:48	1
Sulfate	< 0.500	U	1.00	0.500	mg/L			05/13/24 09:48	1

Lab Sample ID: LCS 670-90358/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90358

7	Spike	LCS	LCS				%Rec
Analyte	Added	_	Qualifier	Unit	D	%Rec	Limits
Fluoride	2.00	2.005		mg/L		100	90 - 110
Chloride	4.00	3.823		mg/L		96	90 - 110
Sulfate	10.0	10.01		mg/L		100	90 - 110

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-671502/3-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA **Analysis Batch: 671617 Prep Batch: 671502** MB MB

Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed Mercury <0.000200 U 0.000500 0.000200 ug/L 05/14/24 16:32 05/15/24 09:38

Lab Sample ID: LCS 400-671502/4-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 671617 Prep Batch: 671502 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Mercury 0.00500 0.004453 89 79 - 121 ug/L

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20

20

Job ID: 670-39584-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCSD 400-671502/5-A		(Client S	ample	ID: Lab	Control	Sample	Dup	
Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 671617							Prep Ba	atch: 67	71502
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00500	0.004617		ug/L		92	79 - 121	4	20

Lab Sample ID: 670-39584-	1 MS						Client	t Sampl	le ID: Pond	Discharge
Matrix: Water									Prep Type	e: Total/NA
Analysis Batch: 671617									Prep Bat	ch: 671502
_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	0.00866		0.0250	0.03010		ug/L		86	71 - 125	

Lab Sample ID: 670-39584-1 MSD							Client Sample ID: Pond Discharge						
Matrix: Water									Prep Ty	pe: Tot	al/NA		
Analysis Batch: 671617									Prep Ba	atch: 67	71502		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Mercury	0.00866		0.0250	0.02935		ug/L		83	71 - 125	3	24		

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 670-90325/3-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total Recoverable
Analysis Batch: 90674	Prep Batch: 90325

M	B MB							
Analyte Resu	lt Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum <3.0	6 U	36.0	3.06	ug/L		05/11/24 16:50	05/13/24 13:08	1
Antimony <0.36	6 U	1.80	0.366	ug/L		05/11/24 16:50	05/13/24 13:08	1
Arsenic <0.35	1 U	3.60	0.351	ug/L		05/11/24 16:50	05/13/24 13:08	1
Barium <0.33	1 U	3.60	0.331	ug/L		05/11/24 16:50	05/13/24 13:08	1
Beryllium <0.28	8 U	0.900	0.288	ug/L		05/11/24 16:50	05/13/24 13:08	1
Cadmium <0.22	1 U	0.900	0.221	ug/L		05/11/24 16:50	05/13/24 13:08	1
Chromium <0.34	9 U	1.80	0.349	ug/L		05/11/24 16:50	05/13/24 13:08	1
Copper <0.57	9 U	1.80	0.579	ug/L		05/11/24 16:50	05/13/24 13:08	1
Lead <0.21	9 U	1.80	0.219	ug/L		05/11/24 16:50	05/13/24 13:08	1
Nickel <0.82	4 U	3.60	0.824	ug/L		05/11/24 16:50	05/13/24 13:08	1
Selenium <0.43	5 U	3.60	0.435	ug/L		05/11/24 16:50	05/13/24 13:08	1
Silver <0.033	3 U	0.900	0.0333	ug/L		05/11/24 16:50	05/13/24 13:08	1
Thallium <0.31	4 U	0.900	0.314	ug/L		05/11/24 16:50	05/13/24 13:08	1
Zinc <1.1	6 U	3.60	1.16	ug/L		05/11/24 16:50	05/13/24 13:08	1
Iron <0.011	1 U	0.0225	0.0111	mg/L		05/11/24 16:50	05/13/24 13:08	1
Manganese <0.00088	8 U	0.000900	0.000888	mg/L		05/11/24 16:50	05/13/24 13:08	1
Magnesium <0.0066	9 U	0.0900	0.00669	mg/L		05/11/24 16:50	05/13/24 13:08	1

Lab Sample I	D: LCS	670-90325/1-A	
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Matrix: Water		F	Prep Type: Total Recoverable					
Analysis Batch: 90674							Prep Bate	ch: 90325
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	5000	4894		ug/L		98	85 - 115	
Antimony	100	100.3		ug/L		100	85 - 115	
Arsenic	100	95.48		ug/L		95	85 - 115	
Barium	100	93.97		ug/L		94	85 - 115	

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Client Sample ID: Lab Control Sample

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Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: 200.8 - Metals (ICP/MS) (Continued)

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 670-90325/1-A **Matrix: Water Analysis Batch: 90674**

Prep Type: Total Recoverable Prep Batch: 90325

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Beryllium	100	95.91		ug/L		96	85 - 115	
Cadmium	100	97.83		ug/L		98	85 - 115	
Chromium	100	93.35		ug/L		93	85 - 115	
Copper	100	90.84		ug/L		91	85 - 115	
Lead	100	95.02		ug/L		95	85 - 115	
Nickel	100	94.64		ug/L		95	85 - 115	
Selenium	100	93.14		ug/L		93	85 - 115	
Silver	100	104.1		ug/L		104	85 - 115	
Thallium	100	93.80		ug/L		94	85 - 115	
Zinc	100	96.97		ug/L		97	85 - 115	

Lab Sample ID: LCSD 670-90325/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 90674							Prep E	Batch: 9	90325
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aluminum	5000	4937		ug/L		99	85 - 115	1	20
Antimony	100	100.4		ug/L		100	85 - 115	0	20
Arsenic	100	95.59		ug/L		96	85 - 115	0	20
Barium	100	93.78		ug/L		94	85 - 115	0	20
Beryllium	100	96.67		ug/L		97	85 - 115	1	20
Cadmium	100	97.56		ug/L		98	85 - 115	0	20
Chromium	100	94.13		ug/L		94	85 - 115	1	20
Copper	100	91.82		ug/L		92	85 - 115	1	20
Lead	100	94.77		ug/L		95	85 - 115	0	20
Nickel	100	95.53		ug/L		96	85 - 115	1	20
Selenium	100	92.78		ug/L		93	85 - 115	0	20
Silver	100	102.3		ug/L		102	85 - 115	2	20
Thallium	100	92.92		ug/L		93	85 - 115	1	20
Zinc	100	97.05		ug/L		97	85 - 115	0	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 670-91141/1 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91141

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.2	U	5.0	1.2	mg/L			05/16/24 09:54	1

Lab Sample ID: LCS 670-91141/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91141

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Oil & Grease (HEM)	40.0	35.70		mg/L		89	78 - 114	

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6/11/2024

Client: Roam Environmental LLC Job ID: 670-39584-1 Project/Site: TPDES Renewal

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 670-91141/3 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 91141

RPD Spike LCSD LCSD %Rec Result Qualifier Added D %Rec Limits RPD Limit Analyte Unit Oil & Grease (HEM) 40.0 32.50 mg/L 81 78 - 114 9 18

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 670-90477/7 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90477

MB MB

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac Prepared 10.0 10.0 mg/L <10.0 U 05/13/24 12:27 Alkalinity

Lab Sample ID: LCS 670-90477/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90477

LCS LCS %Rec Spike Analyte Added Result Qualifier Limits Unit %Rec Alkalinity 100 88.67 mg/L 89 80 - 120

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 670-90889/1 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 90889

MB MB

Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 5.00 Total Dissolved Solids <5.00 U 05/15/24 10:53 5.00 mg/L

Lab Sample ID: LCS 670-90889/2 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 90889

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits **Total Dissolved Solids** 1500 1452 mg/L 97 80 - 120

Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 670-90906/1 Client Sample ID: Method Blank **Matrix: Water**

Analysis Batch: 90906

MB MB Result Qualifier RI MDL Unit Analyte Prepared Analyzed Dil Fac Total Suspended Solids <1.00 U 2.00 1.00 mg/L 05/15/24 12:32

Lab Sample ID: LCS 670-90906/2 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90906

%Rec LCS LCS Spike Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 93.00 mg/L 93 80 - 120

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-39584-1 Project/Site: TPDES Renewal

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 670-92220/17 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 92220

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 05/22/24 19:32 Ammonia (as N) <0.0140 U 0.0200 0.0140 mg/L

Lab Sample ID: MB 670-92220/45 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92220

MB MB

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Analyte 0.0200 05/22/24 19:35 Ammonia (as N) <0.0140 U 0.0140 mg/L

Lab Sample ID: MB 670-92220/69 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA**

Analysis Batch: 92220

MB MB

Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac Ammonia (as N) <0.0140 U 0.0200 0.0140 mg/L 05/22/24 20:05

Lab Sample ID: LCS 670-92220/13 **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 92220

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 0.500 0.4730 Ammonia (as N) mg/L 90 - 110

Lab Sample ID: LCSD 670-92220/16 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92220

LCSD LCSD RPD Spike %Rec Added Result Qualifier Limits Analyte Unit %Rec Limit 0.500 0.4660 90 - 110 Ammonia (as N) mg/L

Lab Sample ID: LCSD 670-92220/44 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92220

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit 0.500 Ammonia (as N) 0.4780 96 90 - 110

Lab Sample ID: LCSD 670-92220/68 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 92220

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.500 Ammonia (as N) 0.4570 mg/L 91 90 - 110

Lab Sample ID: MB 670-92315/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 92315

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Ammonia (as N) <0.0140 U 0.0200 0.0140 mg/L 05/22/24 23:59

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6/11/2024

Prep Type: Total/NA

Job ID: 670-39584-1

Prep Type: Total/NA

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: LCS 670-92315/3 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 92315 Spike LCS LCS %Rec

Result Qualifier Added Limits Analyte Unit %Rec Ammonia (as N) 0.500 0.4720 mg/L 94 90 - 110

Lab Sample ID: LCSD 670-92315/6 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 92315

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 0.500 Ammonia (as N) 0.4800 mg/L 96 90 - 110 2 20

Method: 3500-Cr B-2011 - Chromium, Hexavalent

Lab Sample ID: MB 670-90475/1 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90475

MB MB Result Qualifier RL **MDL** Unit Dil Fac **Analyte** Prepared Analyzed 20.0 05/13/24 13:30 Cr (VI) <10.0 U 10.0 ug/L

Lab Sample ID: MB 670-90475/7 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90475

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Cr (VI) <10.0 U 20.0 10.0 ug/L 05/13/24 13:30

Lab Sample ID: LCS 670-90475/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90475

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Cr (VI) 100 105.2 ug/L 105 80 - 120

Lab Sample ID: LCSD 670-90475/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90475

LCSD LCSD RPD Spike %Rec Added Result Qualifier RPD Analyte Unit %Rec Limits Limit Cr (VI) 100 104.1 20 104 80 - 120 ug/L

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 670-91139/12-A Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Nitrogen, Kjeldahl

Analysis Batch: 91458 Prep Batch: 91139 MB MB Result Qualifier RL MDL Unit Prepared Analyzed <0.180 U 0.400 0.180 mg/L 05/16/24 09:49 05/17/24 14:40

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6/11/2024

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 670-91139/11-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 91458** Prep Batch: 91139 Spike LCS LCS %Rec

Result Qualifier Added Limits Analyte Unit D %Rec Nitrogen, Kjeldahl 3.00 2.980 mg/L 99 90 - 110

Lab Sample ID: MB 670-91235/12-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91458

MB MB

MDL Unit Result Qualifier RL Prepared Analyzed Dil Fac Analyte 0.400 05/16/24 15:44 05/17/24 15:40 Nitrogen, Kjeldahl <0.180 U 0.180 mg/L

Lab Sample ID: LCS 670-91235/11-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA**

Analysis Batch: 91458

Prep Batch: 91235 Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit %Rec Nitrogen, Kjeldahl 3.00 2.960 90 - 110 mg/L

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 670-91139/12-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 91459

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total Phosphorus as P <0.0400 U 0.100 0.0400 mg/L 05/16/24 09:49 05/17/24 14:40

Lab Sample ID: LCS 670-91139/11-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91459

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Total Phosphorus as P 1.50 1.650 mg/L 90 - 110

Lab Sample ID: MB 670-91235/12-A Client Sample ID: Method Blank **Matrix: Water**

Analysis Batch: 91459

MR MR

Result Qualifier RL **MDL** Unit Analyte Prepared Analyzed Dil Fac 0.100 0.0400 mg/L 05/16/24 15:44 05/17/24 15:40 Total Phosphorus as P <0.0400 U

Lab Sample ID: LCS 670-91235/11-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 91459

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 1.50 1.650 Total Phosphorus as P mg/L 110

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Prep Batch: 91235

Prep Type: Total/NA Prep Batch: 91235

Prep Type: Total/NA

Prep Batch: 91139

Prep Batch: 91139

RL

20.0

Spike

Added

500

Spike

Added

Spike

Added

1.00

Spike

Added

1.00

500

RL

0.200

MDL Unit

10.0 mg/L

LCS LCS

LCSD LCSD

Result Qualifier

MDL Unit

0.0600 mg/L

LCS LCS

LCSD LCSD

Result Qualifier

1.020

1.020

Result Qualifier

494.7

496.8

Result Qualifier

Unit

mg/L

Unit

mg/L

Unit

mg/L

Unit

mg/L

Job ID: 670-39584-1

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method: 410.4 - COD

Lab Sample ID: MB 670-90467/1-A

Matrix: Water

Analysis Batch: 90468

MB MB

Result Qualifier Analyte

Chemical Oxygen Demand <10.0 U Lab Sample ID: LCS 670-90467/4-A

Matrix: Water Analysis Batch: 90468

Analyte

Chemical Oxygen Demand

Lab Sample ID: LCSD 670-90467/5-A **Matrix: Water**

Analysis Batch: 90468

Analyte

Chemical Oxygen Demand

Method: 4500 CI F-2011 - Chlorine Residual (DPD)

<0.0600 U

Lab Sample ID: MB 410-505656/1

Matrix: Water

Analysis Batch: 505656

MB MB Result Qualifier

Analyte Residual Chlorine

Lab Sample ID: LCS 410-505656/2

Matrix: Water

Analysis Batch: 505656

Analyte

Residual Chlorine

Residual Chlorine

Lab Sample ID: LCSD 410-505656/3 **Matrix: Water**

Analysis Batch: 505656

Analyte

Lab Sample ID: 670-39584-1 DU

Matrix: Water

Analysis Batch: 505656

Analyte Result Qualifier

Residual Chlorine <0.0600 UHF

DU DU Sample Sample

<0.0600 U

Result Qualifier

Unit mg/L

D

RPD Limit NC

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90467

Analyzed Dil Fac 05/13/24 12:30 05/13/24 13:30

Prepared

D %Rec

%Rec

Prepared

102

%Rec

102

99

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

Prep Batch: 90467 %Rec

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Limits

90 - 110

Prep Batch: 90467

%Rec **RPD**

Limits RPD Limit 90 - 110 20

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

Dil Fac

05/13/24 23:58

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

Limits 95 - 105

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

RPD %Rec RPD Limit Limits 95 - 105

Client Sample ID: Pond Discharge

Prep Type: Total/NA

RPD

Eurofins Orlando

Client: Roam Environmental LLC Job ID: 670-39584-1 Project/Site: TPDES Renewal

Method: 4500 H+ B-2011 - pH

Lab Sample ID: LCS 670-90272/1 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 90272

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit SU рΗ 6.00 6.1 101 99 - 101

Method: 5210 B-2016 - CBOD, 5-Day

Lab Sample ID: MB 670-90986/2 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Demand

Analysis Batch: 90986

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 2.00 <2.00 U 2.00 mg/L 05/10/24 10:56 Carbonaceous Biochemical Oxygen

Lab Sample ID: SCB 670-90986/4

Matrix: Water

Analysis Batch: 90986

SCB SCB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <2.00 Us 2.00 05/10/24 11:04 Carbonaceous Biochemical Oxygen 2.00 ma/L Demand

Lab Sample ID: USB 670-90986/1

Matrix: Water

Analysis Batch: 90986

USB USB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed <2.00 U 2 00 2.00 mg/L 05/10/24 10:52 Carbonaceous Biochemical Oxygen

Demand

Lab Sample ID: LCS 670-90986/3 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 90986

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Carbonaceous Biochemical 198 187.2 mg/L 95 85 - 115 Oxygen Demand

Method: 5210B-2016 - BOD, 5 Day

Lab Sample ID: MB 670-90986/35 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 90986

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 2.00 05/10/24 15:22 Biochemical Oxygen Demand <2.00 U 2.00 mg/L

Lab Sample ID: SCB 670-90986/37 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 90986

SCB SCB Result Qualifier RL **Analyte MDL** Unit Analyzed Dil Fac Prepared 2.00 <2.00 Us 05/10/24 15:29 **Biochemical Oxygen Demand** 2.00 mg/L

Eurofins Orlando

6/11/2024

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: 5210B-2016 - BOD, 5 Day (Continued)

Lab Sample ID: USB 670-90986/34 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 90986

USB USB

Analyzed Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared <2.00 U 2.00 05/10/24 15:19 **Biochemical Oxygen Demand** 2.00 mg/L

Lab Sample ID: LCS 670-90986/36 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 90986

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Unit 198 175.2 85 - 115 Biochemical Oxygen Demand mg/L 88

Lab Sample ID: LCS 670-90986/59 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 90986

Spike LCS LCS %Rec Added Limits Analyte Result Qualifier Unit %Rec Biochemical Oxygen Demand 198 214.7 85 - 115 mg/L

Method: OIA-1677 - Cyanide, Available (Flow Injection)

Lab Sample ID: MB 410-509184/18 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 509184

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Cyanide, Available <5.00 U 6.00 5.00 ug/L 05/21/24 09:15

Lab Sample ID: LCS 410-509184/16 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 509184

LCS LCS Spike %Rec Analyte Added Result Qualifier Limits Cyanide, Available 50.0 51.43 ug/L 103 82 - 132

Lab Sample ID: LCSD 410-509184/17 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 509184

Spike LCSD LCSD RPD %Rec Added Result Qualifier Analyte Unit %Rec Limits **RPD** Limit Cyanide, Available 50.0 50.68 101 82 - 132 ug/L

Method: SM 5310C - TOC

Lab Sample ID: MB 670-90400/38 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 90400

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00	U	2.00	1.00	mg/L			05/10/24 22:41	1
TOC Result 1	<1.00	U	2.00	1.00	mg/L			05/10/24 22:41	1
TOC Result 2	<1.00	U	2.00	1.00	mg/L			05/10/24 22:41	1

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Prep Type: Total/NA

QC Sample Results

Client: Roam Environmental LLC Job ID: 670-39584-1

Project/Site: TPDES Renewal

Method: SM 5310C - TOC (Continued)

Lab Sample ID: MB 670-90400/7 **Client Sample ID: Method Blank**

Matrix: Water

Analysis Batch: 90400

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00	U	2.00	1.00	mg/L			05/10/24 15:26	1
TOC Result 1	<1.00	U	2.00	1.00	mg/L			05/10/24 15:26	1
TOC Result 2	<1.00	U	2.00	1.00	mg/L			05/10/24 15:26	1

Lab Sample ID: LCS 670-90400/36

Matrix: Water

Analysis Batch: 90400

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Organic Carbon	 9.98	10.30		mg/L		103	80 - 120	

Lab Sample ID: LCSD 670-90400/37

Matrix: Water

	Analysis Batch: 90400									
		Spike	LCSD	LCSD				%Rec		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Total Organic Carbon	9.98	9.875		mg/L		99	80 - 120	4	20

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client: Roam Environmental LLC Job ID: 670-39584-1 Project/Site: TPDES Renewal

HPLC/IC

Analy	/sis	Batch	n: 90	138
Allai	7010	Dutoi		

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	300.0	
MB 670-90138/37	Method Blank	Total/NA	Water	300.0	
MB 670-90138/6	Method Blank	Total/NA	Water	300.0	
LCS 670-90138/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-90138/36	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 90139

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-90139/37	Method Blank	Total/NA	Water	300.0	
MB 670-90139/6	Method Blank	Total/NA	Water	300.0	
LCS 670-90139/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-90139/36	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 90358

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 670-90358/6	Method Blank	Total/NA	Water	300.0	
LCS 670-90358/5	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 90325

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total Recoverable	Matrix Water	Method 200.8	Prep Batch
MB 670-90325/3-A	Method Blank	Total Recoverable	Water	200.8	
LCS 670-90325/1-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 670-90325/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

Analysis Batch: 90674

Lat	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670)-39584-1	Pond Discharge	Total Recoverable	Water	200.8	90325
MB	670-90325/3-A	Method Blank	Total Recoverable	Water	200.8	90325
LC	S 670-90325/1-A	Lab Control Sample	Total Recoverable	Water	200.8	90325
LC	SD 670-90325/2-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	90325

Analysis Batch: 90868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total Recoverable	Water	200.8	90325

Prep Batch: 671502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	1631E	<u> </u>
670-39584-2	Pond Discharge	Total/NA	Water	1631E	
MB 400-671502/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-671502/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-671502/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
670-39584-1 MS	Pond Discharge	Total/NA	Water	1631E	
670-39584-1 MSD	Pond Discharge	Total/NA	Water	1631E	

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

Metals

Analysis Batch: 671617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	1631E	671502
670-39584-2	Pond Discharge	Total/NA	Water	1631E	671502
MB 400-671502/3-A	Method Blank	Total/NA	Water	1631E	671502
LCS 400-671502/4-A	Lab Control Sample	Total/NA	Water	1631E	671502
LCSD 400-671502/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	671502
670-39584-1 MS	Pond Discharge	Total/NA	Water	1631E	671502
670-39584-1 MSD	Pond Discharge	Total/NA	Water	1631E	671502

General Chemistry

Analysis Batch: 90272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	4500 H+ B-2011	
LCS 670-90272/1	Lab Control Sample	Total/NA	Water	4500 H+ B-2011	

Analysis Batch: 90400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	SM 5310C	
MB 670-90400/38	Method Blank	Total/NA	Water	SM 5310C	
MB 670-90400/7	Method Blank	Total/NA	Water	SM 5310C	
LCS 670-90400/36	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 670-90400/37	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Prep Batch: 90467

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 410.4	Prep Batch
MB 670-90467/1-A	Method Blank	Total/NA	Water	410.4	
LCS 670-90467/4-A	Lab Control Sample	Total/NA	Water	410.4	
LCSD 670-90467/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	

Analysis Batch: 90468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	410.4	90467
MB 670-90467/1-A	Method Blank	Total/NA	Water	410.4	90467
LCS 670-90467/4-A	Lab Control Sample	Total/NA	Water	410.4	90467
LCSD 670-90467/5-A	Lab Control Sample Dup	Total/NA	Water	410.4	90467

Analysis Batch: 90475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	3500-Cr B-2011	<u> </u>
MB 670-90475/1	Method Blank	Total/NA	Water	3500-Cr B-2011	
MB 670-90475/7	Method Blank	Total/NA	Water	3500-Cr B-2011	
LCS 670-90475/4	Lab Control Sample	Total/NA	Water	3500-Cr B-2011	
LCSD 670-90475/5	Lah Control Sample Dun	Total/NA	Water	3500-Cr B-2011	

Analysis Batch: 90477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	2320B-2011	·
MB 670-90477/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 670-90477/5	Lab Control Sample	Total/NA	Water	2320B-2011	

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Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

General Chemistry

Analysis Batch: 90889	Anal	ysis	Batch	: 90	889
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	2540C - 2015	
MB 670-90889/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 670-90889/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Analysis Batch: 90906

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 2540D-2015	Prep Batch
MB 670-90906/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 670-90906/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Analysis Batch: 90986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	5210 B-2016	
670-39584-1	Pond Discharge	Total/NA	Water	5210B-2016	
MB 670-90986/2	Method Blank	Total/NA	Water	5210 B-2016	
MB 670-90986/35	Method Blank	Total/NA	Water	5210B-2016	
SCB 670-90986/37	Method Blank	Total/NA	Water	5210B-2016	
SCB 670-90986/4	Method Blank	Total/NA	Water	5210 B-2016	
USB 670-90986/1	Method Blank	Total/NA	Water	5210 B-2016	
USB 670-90986/34	Method Blank	Total/NA	Water	5210B-2016	
LCS 670-90986/3	Lab Control Sample	Total/NA	Water	5210 B-2016	
LCS 670-90986/36	Lab Control Sample	Total/NA	Water	5210B-2016	
LCS 670-90986/59	Lab Control Sample	Total/NA	Water	5210B-2016	

Prep Batch: 91139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-91139/12-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 670-91139/11-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 91141

Lab Sample ID 670-39584-2	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 1664A	Prep Batch
MB 670-91141/1	Method Blank	Total/NA	Water	1664A	
LCS 670-91141/2	Lab Control Sample	Total/NA	Water	1664A	
LCSD 670-91141/3	Lab Control Sample Dup	Total/NA	Water	1664A	

Prep Batch: 91235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	365.2/365.3/365	
MB 670-91235/12-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 670-91235/11-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 91458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	351.2	91235
MB 670-91139/12-A	Method Blank	Total/NA	Water	351.2	91139
MB 670-91235/12-A	Method Blank	Total/NA	Water	351.2	91235
LCS 670-91139/11-A	Lab Control Sample	Total/NA	Water	351.2	91139
LCS 670-91235/11-A	Lab Control Sample	Total/NA	Water	351.2	91235

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Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

General Chemistry

Analysis Batch: 91459

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method 365.4	Prep Batch 91235
MB 670-91139/12-A	Method Blank	Total/NA	Water	365.4	91139
MB 670-91235/12-A	Method Blank	Total/NA	Water	365.4	91235
LCS 670-91139/11-A	Lab Control Sample	Total/NA	Water	365.4	91139
LCS 670-91235/11-A	Lab Control Sample	Total/NA	Water	365.4	91235

Analysis Batch: 91469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	Nitrogen,Org	

Analysis Batch: 92220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-92220/17	Method Blank	Total/NA	Water	350.1	
MB 670-92220/45	Method Blank	Total/NA	Water	350.1	
MB 670-92220/69	Method Blank	Total/NA	Water	350.1	
LCS 670-92220/13	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-92220/16	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 670-92220/44	Lab Control Sample Dup	Total/NA	Water	350.1	
LCSD 670-92220/68	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 92315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	350.1	
MB 670-92315/7	Method Blank	Total/NA	Water	350.1	
LCS 670-92315/3	Lab Control Sample	Total/NA	Water	350.1	
LCSD 670-92315/6	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 95143

Lab Sample ID	Client Sample ID		Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 505656

Lab Sample ID 670-39584-1	Client Sample ID Pond Discharge	Prep Type Total/NA	Matrix Water	Method P 4500 CI F-2011	rep Batch
MB 410-505656/1	Method Blank	Total/NA	Water	4500 CI F-2011	
LCS 410-505656/2	Lab Control Sample	Total/NA	Water	4500 CI F-2011	
LCSD 410-505656/3	Lab Control Sample Dup	Total/NA	Water	4500 CI F-2011	
670-39584-1 DU	Pond Discharge	Total/NA	Water	4500 CI F-2011	

Analysis Batch: 506048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-1	Pond Discharge	Total/NA	Water	360.1	

Analysis Batch: 509184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-39584-2	Pond Discharge	Total/NA	Water	OIA-1677	
MB 410-509184/18	Method Blank	Total/NA	Water	OIA-1677	
LCS 410-509184/16	Lab Control Sample	Total/NA	Water	OIA-1677	
LCSD 410-509184/17	Lab Control Sample Dup	Total/NA	Water	OIA-1677	

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Client Sample ID: Pond Discharge

Date Collected: 05/09/24 12:30 Date Received: 05/10/24 09:30 Lab Sample ID: 670-39584-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	300.0		10	90358	YGS	EET ORL	05/13/24 11:48
Total/NA	Analysis	300.0		1	90138	YGS	EET ORL	05/10/24 21:39
Total/NA	Analysis	300.0		1	90139	YGS	EET ORL	05/10/24 21:39
Total/NA	Prep	1631E			671502	VLC	EET PEN	05/14/24 14:12 - 05/15/24 09:10 1
Total/NA	Analysis	1631E		1	671617	VLC	EET PEN	05/15/24 11:48
Total Recoverable	Prep	200.8			90325	EB	EET ORL	05/11/24 16:50
Total Recoverable	Analysis	200.8		1	90674	JA	EET ORL	05/13/24 13:45
Total Recoverable	Prep	200.8			90325		EET ORL	05/11/24 16:50
Total Recoverable	Analysis	200.8		10	90868	JA	EET ORL	05/14/24 13:51
Total/NA	Analysis	2320B-2011		1	90477	IAD	EET ORL	05/13/24 12:43
Total/NA	Analysis	2540C - 2015		1	90889	SM	EET ORL	05/15/24 10:53
Total/NA	Analysis	2540D-2015		1	90906	DGS	EET ORL	05/15/24 12:32
Total/NA	Analysis	350.1		1	92315	VJW	EET ORL	05/23/24 00:12
Total/NA	Analysis	3500-Cr B-2011		2	90475	IAD	EET ORL	05/13/24 13:30
Total/NA	Prep	365.2/365.3/365			91235	DGS	EET ORL	05/16/24 15:44
Total/NA	Analysis	351.2		1	91458	LD	EET ORL	05/17/24 15:54
Total/NA	Analysis	360.1		1	506048	DI9Q	ELLE	05/14/24 14:05
Total/NA	Prep	365.2/365.3/365			91235	DGS	EET ORL	05/16/24 15:44
Total/NA	Analysis	365.4		1	91459	LD	EET ORL	05/17/24 15:54
Total/NA	Prep	410.4			90467	VJW	EET ORL	05/13/24 12:30
Total/NA	Analysis	410.4		1	90468	VJW	EET ORL	05/13/24 13:30
Total/NA	Analysis	4500 CI F-2011		1	505656	UDS7	ELLE	05/13/24 23:58
Total/NA	Analysis	4500 H+ B-2011		1	90272	IAD	EET ORL	05/10/24 15:00
Total/NA	Analysis	5210 B-2016		1	90986	ZM	EET ORL	05/10/24 13:41
Total/NA	Analysis	5210B-2016		1	90986	ZM	EET ORL	05/10/24 17:40
Total/NA	Analysis	Nitrogen,Org		1	91469	CHL	EET ORL	05/17/24 17:34
Total/NA	Analysis	SM 3500 CR B		1	95143	CHL	EET ORL	06/11/24 11:33
Total/NA	Analysis	SM 5310C		1	90400	IAD	EET ORL	05/11/24 00:11

Client Sample ID: Pond Discharge

Date Collected: 05/09/24 12:30 Date Received: 05/10/24 09:30 Lab Sample ID: 670-39584-2

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	1631E			671502	VLC	EET PEN	05/14/24 14:12 - 05/15/24 09:10 ¹
Total/NA	Analysis	1631E		1	671617	VLC	EET PEN	05/15/24 12:11
Total/NA	Analysis	1664A		1	91141	BG	EET ORL	05/16/24 09:54
Total/NA	Analysis	OIA-1677		1	509184	UJE2	ELLE	05/21/24 09:47

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Orlando

Lab Chronicle

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

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Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

Laboratory: Eurofins Orlando

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date				
Alabama	State	42800	06-30-24				
Arkansas (DW)	State	FL00091	06-30-24				
Florida	NELAP	E83018	06-30-24				
Georgia (DW)	State	C055	06-30-24				
Louisiana (All)	NELAP	239316	06-30-24				
Mississippi	State	MS00007	06-30-24				
New Mexico	State	FL00091	06-30-24				
North Carolina (DW)	State	12712	07-31-24				
Oklahoma	State	2308	08-31-24				
Tennessee	State	TN04930	06-30-24				
Texas	NELAP	T104704571	02-28-25				
Washington	State	C1089	10-19-24				

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	05-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
lowa	State	361	03-01-24 *
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Orlando

6/11/2024

Page 27 of 36

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Accreditation/Certification Summary

Client: Roam Environmental LLC
Project/Site: TPDES Renewal

Job ID: 670-39584-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	05-23-24
North Dakota	State	R-205	01-31-24 *
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24 *
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	11-30-24

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

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^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Method **Method Description Protocol** Laboratory 300.0 Anions, Ion Chromatography EPA **EET ORL** 1631E **EET PEN EPA** Mercury, Low Level (CVAFS) 200.8 Metals (ICP/MS) **EPA EET ORL** 1664A HEM and SGT-HEM 1664A EET ORL 2320B-2011 Alkalinity, Total SM **EET ORL** 2540C - 2015 Total Dissolved Solids (Dried at 180 °C) SM **EET ORL** 2540D-2015 Total Suspended Solids (Dried at 103-105°C) SM EET ORL 350.1 Nitrogen, Ammonia **EPA EET ORL** 3500-Cr B-2011 Chromium, Hexavalent SM **EET ORL** EPA 351.2 Nitrogen, Total Kjeldahl **EET ORL** 360.1 Oxygen, Dissolved **EPA ELLE** 365.4 Phosphorus, Total EPA **EET ORL** 410.4 COD EPA **EET ORL** 4500 CI F-2011 Chlorine Residual (DPD) **ELLE** SM 4500 H+ B-2011 pΗ SM **EET ORL** 5210 B-2016 CBOD, 5-Day SM **EET ORL** 5210B-2016 BOD, 5 Day SM **EET ORL** Nitrogen, Org Nitrogen, Organic EPA **EET ORL** OIA-1677 Cyanide, Available (Flow Injection) OI CORP ELLE SM 3500 CR B Chromium, Trivalent **EET ORL** SM SM 5310C TOC SM **EET ORL** 1631E Preparation, Mercury, Low Level EPA **EET PEN** 200.8 Preparation, Total Recoverable Metals EPA **EET ORL**

Protocol References:

351.2

410.4

365.2/365.3/365

1664A = EPA-821-98-002

COD

EPA = US Environmental Protection Agency

OI CORP = OI Corporation Instrument Manual.

Nitrogen, Total Kjeldahl

Phosphorus, Total

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

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Orlando

Job ID: 670-39584-1

EET ORL

EET ORL

EET ORL

EPA

EPA

EPA

Sample Summary

Client: Roam Environmental LLC Project/Site: TPDES Renewal

Job ID: 670-39584-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-39584-1	Pond Discharge	Water	05/09/24 12:30	05/10/24 09:30
670-39584-2	Pond Discharge	Water	05/09/24 12:30	05/10/24 09:30

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Eurofins Orlando

481 Newburyport Avenue Altamonte Springs, FL 32701

Chain of Custody Record

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Client Information	Sampler:	0 1) , ,		Lab PM		_							Carrie	r Track	ing N	0(8):				COC No:	7.4
Client Information Client Contact:	Phone:	e H K	ride		Builes E-Mail:	s, Joh	n						_	Ctata	of Orig						670-18561-757 Page:	7.1
Blair Shackford	806	e A K -395	- 749	5	John.l	Buile	s@et	.eurc	finsu	s.co	m			State	or Ong	11.					Page 1 of 2	
Company: Roam Environmental LLC			PWSID:							Aı	naly	sis	Rea	ues	ted						Job #:	
Address:	Due Date Request	ted:	1			T										Т	Т	T	_		Preservation Co	des:
3204 Hogan Ct					_												- 1				N - None B - NsOH	
City: Edmond	TAT Requested (d	ays):			- 1									ا			- 1				S - H2SO4	
State, Zip:														Cal							D - HNO3	
OK, 73013	Compliance Proje	ct: A Yes	Δ No											alent				- 1				
Phone: 405-476-5321(Tel)	PO#: Purchase Orde	r not require	ed										8	Chromium, Trivalent Calc	ts		1				1	
Email:	WO #:					2							pilo	ium,	ntan			B	рог		1	
oamenv@gmail.com	NA					or No)						1	ed S	rom	Po		gg	Meth	Meth	SI	1	
Project Name: FPDES Renewal	Project #: 67004839				٤	20 2		po			4	- 1	solv	t C	Ţ.		8	ca	ocal	aine	1	
Site	SCOM#				<u> </u>	ع اق	Pg .	Method	9	_	410.		o l	alen	Pri		90	١٠	- Ľ	containers	Other:	
IACX-Rock Creek - Pond Discharen	2				;	Perform MS/MSD (Yes	1631E - Local Method	call	360.1 - Local Method	1677 - Local Method	365.4, 410.4	چ	2540C_Calcd - Total Dissolved Solids	3500_CR_B - Hexavalent	200.8_CWA - (MOD) Priority Pollutants		Spilos pepuedsno	SM5210B_BODCalc - Local Method	SM5210B_CBODCal - Local Method			
,			Sample	Matri	ix 3	NS/	cal	4500_CI_F - Local	al N	a M	2, 36	2320B - Alkalinity	- P3	# H	- A	g :	ie l	8	CBC	Total Number of	1	
			Type	(W=wat		ĒΕ	ا ذ	S.F.	١٥	۱ ا	351.	¥	S.	중'	S.	o'u	-	8	8	N		
S		Sample	(C=comp,	O=waste	foll.	1	331E	200	1.0	. 778	350.1, 351.2,	25 B	54	8	8.0	Nitrogen, Org	2340D - 10tal	M52	W521	otal		
Sample Identification	Sample Date	Time	G=grab) Preserva			* 7	_	_		_		_		-		_	_	_			Special Ir	nstructions/Note:
~					-	₩	N	N	N	В	S	1	N I	4) N	N	-	1	N	\triangle		
Pond Discharge Pond Discharge	5/9/24 5/9/2H	1230	Comp	Wate	er	\perp											\perp	_				
Panel Discharge	4/9/2H	12.30	Grab	Wate	er																	
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ossible Hazard Identification						Sar	nnle	Disn	osal	/ A 1	foe m	av h	0 25	5055	ed if	sami	1/05	are	ref	ine	ed longer than 1	month)
Non-Hazard Flammable Skin Irritant Pois	on B	own = F	Radiological	ı					To C						al By				_		ive For	Months
eliverable Requested: I, II, III, IV, Other (specify)	OH OHAN	3411	tadiological			Spe	_		ction	_		uire			ar Dy	Lav				iciii	ve i oi	MOTHITS
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elinquished by:	Date/Time:	Date.	1	Company			Doccis	id by	1		4	_	_		ictilou							IC
Steve & Kidd	5/9/24	1:	330	Company <u>LACX</u>	- P	c.	Receiv	L	la.	. F		ze,	n			5	te/Tir	7/	71	,	13/50	Compensy
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Eurofins Orlando

Δ Yes Δ No

481 Newburyport Avenue

Chain of Custody Record

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Altamonte Springs, FL 32701 Phone (407) 339-5984 Phone (407) 260-6110 Carrier Tracking No(s): COC No: Steve A Kidd Builes, John Client Information 670-18561-7577.2 Client Contact: 806-395-7495 E-Mail: State of Origin: Blair Shackford John.Builes@et.eurofinsus.com Page 2 of 2 Company Roam Environmental LLC **Analysis Requested** Due Date Requested: Preservation Codes: 3204 Hogan Ct N - None TAT Requested (days): Edmond State, Zip Extractable Material (HEM) OK. 73013 Compliance Project: A Yes A No Phone: 405-476-5321(Tel) Purchase Order not required WO #: ORGFMS roamenv@gmail.com containers Project Name: TPDES Renewal 67004839 300 TACX- Rock Creek - Pond Discharge 1664A_NP - Hexane 300_ORGFM_28D, Number of Matrix Sample (w=water, Type Sample (C=comp, O=waste/oil, Sample Identification Sample Date Time G=grab) BT=Tissue, A=Air) Special Instructions/Note: ĴX∫s Preservation Code: s N Water Water Water Water Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For ______ Mont Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Return To Client Archive For Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Empty Kit Relinquished by: Date: Time: Relinguished by: Date/Time: Company 519/24 IACX-RC Relinguished by: 5/10/24 0930 Relinquished by: Date/Time: Company Received by Company Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:

481 Newburyport Avenue Altamonte Springs, FL 32701

Chain of Custody Record



🔁 eurofins

Phone: 407-339-5984 Fax: 407-260-6110																					
Client Information (Sub Contract Lab)	Sampler:			Lab Bui		es, John						rier Tra	cking	No(s):			COC No: 670-28956.1				
Client Contact: Shipping/Receiving	Phone:			E-M Joh	ail: in.Buil	les@	et.e	urofin	sus.co	om			le of Or					Page: Page 1 of 1			
Company: Eurofins Lancaster Laboratories Environm					Accreditations Required (See note): NELAP - Texas													Job #: 670-39584-1			
Address:	Due Date Request	ari:			1111		100				-							Preservation			
2425 New Holland Pike, ,	5/24/2024								Α	Analy	sis Re	eque	sted					-	Codes:		
City: Lancaster	TAT Requested (da	ays):			П																
State, Zip: PA, 17601					П																
Phone: 717-656-2300(Tel)	PO#:																				
Email	WO#:				Sample (Yes or No	اء															
Project Name:	Project #: 67004839				ا ڠ	١											iner				
TPDES Renewal Site:	SSOW#:				륉	اڠ											containers	Other:			
						MS/MSD (Yes or No)											5				
Client ID (Let ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) s	Matrix (w-water, S=solid, O=waste/oil,	Field Filtered	Ē	360.1	4500_CI_F									Total Number	Caral	.1.14		
Sample Identification - Client ID (Lab ID)	Sample Date	111116	Preservati		X	,	-	4 -	+	+		+				_	×	Specia	ai instru	uctions/No	ite:
Pond Discharge (670-39584-1)	5/9/24	12:30 Central		Water	İΪ		×	x									2				
Pond Discharge (670-39584-2)	5/9/24	12:30 Central		Water	П			>	<								1				
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Note: Since laboratory accreditations are subject to change, Eurofins Envidoes not currently maintain accreditation in the State of Origin listed abovitatus should be brought to Eurofins Environment Testing Southeast, LLC	e for analysis/tests/matrix be	ing analyzed, t	he samples must	be shipped	back to	the E	urofin	s Envi	ronmen	nt Testin	g Southe	east, LL	C labor	ratory	or other	Instructi	ons wi	ill be provided. A	Any change	ustody. If the les to accredit	alaboratory itation
Possible Hazard Identification					5	Sam	7		sal (/		nay be	7	ssed osal E					ed longer the nive For			
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2		- 1	Spec	_	_		QC Re	quirem		OSAI E	у св	D	_	Arch	IVE FOR		Months	
Empty Kit Relinquished by:		Date:			Tim	18:	_	_	_		_	_	Meth	od of	Shipmen	t;					
Relinquished by:	Date/Time:			ompany		R	eceive	ed by:					_		Date/Tir	ne:			Co	ompany	
Relinquished by:	5/10/24 Date/Time:	1	330	ompany		R	eceive	ed by:							Date/Tir	ne:			Co	ompany	
Relinquished by:	Date/Time:			ompany		R	eceive	ed by:			1	-			Date/Tip	ne: ı			Co	ompany	95
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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-39584-1

Login Number: 39584 List Source: Eurofins Orlando

List Number: 1

Creator: Hartley, Tyler

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Roam Environmental LLC Job Number: 670-39584-1

Login Number: 39584 List Source: Eurofins Lancaster Laboratories Environment Testing, LLC List Number: 3 List Creation: 05/11/24 03:17 PM

Creator: Roth, Stephanie

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required(=6C, not frozen).</td <td>True</td> <td></td>	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable, where thermal pres is required (=6C, not frozen).</td <td>N/A</td> <td></td>	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

6/11/2024

Eurofins Orlando

Client: Roam Environmental LLC Job Number: 670-39584-1

List Source: Eurofins Pensacola
List Number: 2
List Creation: 05/11/24 01:20 PM

Creator: Pardonner, Brett

Creator: Pardonner, Brett		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Leah Whallon

From: Blair Shackford <blair@baberenvironmental.com>

Sent: Friday, June 28, 2024 4:46 PM

To: Leah Whallon

Cc: David McWethy; Justin Wheeler; Scott Baber; Sheila Baber

Subject: Requested Documents related to IACX Rock Creek TPDES Renewal

Attachments: IACX Rock Creek LLC - Updated Core Data Form.pdf; IACX Rock Creek LLC_Industrial

Discharge Amendment Spanish NORI.docx

Follow Up Flag: Follow up Flag Status: Flagged

Good Afternoon, Leah!

In response to your letter dated June 27, 2024, IACX Rock Creek LLC is submitting the following attached documents:

- Updated Core Data Form
- · NORI translated to Spanish

Please note, in the NORI language included in your letter, the Facility address is listed as 1200 West 10th Street. This should be changed to 1000 West 10th Street. I have included this corrected address in the Spanish language NORI.

Please let me know if you have any questions or would like to discuss.

Thank you, Blair Shackford 405-476-5321

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 1: General Info	rmation				
1. Reason for Submission (If other is checked plea	ase describe in space provided.)				
New Permit, Registration or Authorization (Core	e Data Form should be submitted with	the program application.)			
Renewal (Core Data Form should be submitted	with the renewal form)	Other			
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in	3. Regulated Entity Reference Numbe	r (if issued)		
CN 605745843	Central Registry**	RN 100216613			
SECTION II: Customer In	nformation				
4. General Customer Information 5.	Effective Date for Customer Infor	mation Updates (mm/dd/yyyy)	6/28/2024		
☐ New Customer ☑ Updat	te to Customer Information	Change in Regulated Entity Ownership			
Change in Legal Name (Verifiable with the Texas S	ecretary of State or Texas Comptroller	of Public Accounts)			
The Customer Name submitted here may be u	pdated automatically based on w	hat 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: IACX Rock Creek LLC 9. Federal Tax ID 10. DUNS Number (if 8. TX State Tax ID (11 digits) 7. TX SOS/CPA Filing Number applicable) 32070671923 (9 digits) 0803314725 118983358 84-3771740 Individual Partnership: General Limited □ Corporation 11. Type of Customer: Other: Sole Proprietorship Government: City County Federal Local State Other 13. Independently Owned and Operated? 12. Number of Employees ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher ✓ Yes ☐ No 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following Owner Operator Owner & Operator Other: Occupational Licensee Responsible Party 5001 Lyndon B Johnson Freeway, Suite 300 15. Mailing Address: **ZIP + 4** State ZIP 75244 City Dallas 17. E-Mail Address (if applicable) 16. Country Mailing Information (if outside USA) justinwheeler@iacx.com 20. Fax Number (if applicable) 18. Telephone Number 19. Extension or Code

Page 1 of 3 TCEQ-10400 (11/22)

(972) 960-3217)
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SECTION III: Regulated Entity Information

New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information									
, ,									
The Regulated Entity Nanas Inc, LP, or LLC).	ne submitted	d may be updated, i	in order to mee	t TCEQ Cor	e Data Stan	dards (re	moval of or	ganization	al endings such
22. Regulated Entity Nam	e (Enter name	e of the site where the	regulated action	is taking pla	ce.)				
Rock Creek Gas Plant									11
23. Street Address of the Regulated Entity:	1000 W 10 th	St							
(No PO Boxes)						r			
	City	Borger	State	TX	ZIP	79007		ZIP + 4	
24. County	Hutchinson								
		If no Street Ad	ldress is provid	ed, fields 2	5-28 are re	quired.			
25. Description to									
Physical Location:									
26. Nearest City						State		Nea	rest ZIP Code
Latitude/Longitude are re					ata Standa	rds. (Geo	coding of th	e Physical	Address may be
used to supply coordinate	es where noi	ne have been provid	ded or to gain o	accuracy).					
27. Latitude (N) In Decima		ne have been provid	ded or to gain (ongitude (V	V) In Deci	mal:		
		ne have been provid					mal: //inutes		Seconds
27. Latitude (N) In Decim	al:			28. L					Seconds
27. Latitude (N) In Decim	Minutes		onds	28. L	es ry NAICS Co	N	/linutes	ndary NAIG	
27. Latitude (N) In Decima	Minutes	Secondary SIC Code	onds	28. L	es ry NAICS Co	N	/linutes		
27. Latitude (N) In Decima	Minutes	Secondary SIC Code	onds	28. L	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits)	30. (4 di	Secondary SIC Code	onds	28. L Degre 31. Primal (5 or 6 digi	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits)	30. (4 di	Secondary SIC Code	onds	28. L Degre 31. Primal (5 or 6 digi	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E	Minutes 30. (4 di	Secondary SIC Code	onds	28. L Degre 31. Primal (5 or 6 digi	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E Natural gas liquids plant 34. Mailing	Minutes 30. (4 di	Secondary SIC Code gits) his entity? (Do not	onds	28. L Degre 31. Primal (5 or 6 digi	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E	Minutes 30. (4 di	Secondary SIC Code gits) his entity? (Do not	onds	28. L Degre 31. Primal (5 or 6 digi	es ry NAICS Co	N	Ainutes 32. Seco		
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E Natural gas liquids plant 34. Mailing	Minutes 30. (4 di Susiness of t	Secondary SIC Code gits) his entity? (Do not	repeat the SIC or	28. L Degre 31. Prima (5 or 6 digi	es NAICS Co	de	Ainutes 32. Seco	gits)	
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E Natural gas liquids plant 34. Mailing Address:	Minutes 30. (4 di Susiness of t	Secondary SIC Code gits) his entity? (Do not reeway, Suite 300 Dallas nwheeler@iacx.com	repeat the SIC or	28. L Degree 31. Prima (5 or 6 digi	es Ty NAICS Co is) iption.)	75244	Ainutes 32. Seco	zits)	
27. Latitude (N) In Decimal Degrees 29. Primary SIC Code (4 digits) 1321 33. What is the Primary E Natural gas liquids plant 34. Mailing Address: 35. E-Mail Address:	Minutes 30. (4 di Susiness of t	Secondary SIC Code gits) his entity? (Do not reeway, Suite 300 Dallas nwheeler@iacx.com	repeat the SIC or	28. L Degree 31. Prima (5 or 6 digi	es Ty NAICS Co ts) iption.) ZIP 38. F	75244	32. Seco	zits)	

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.

TCEQ-10400 (11/22) Page 2 of 3

☐ 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 Clear	nup	⊠ Wastewater	☐ Wastewater Agricul	lture] Water Rights	Other:
SECTION	IV: Pr	eparer Inf	ormation			
40. Name: Sco	ott Baber			41. Title:	Environmental Complian	ce Manager
42. Telephone Nu	mber	43. Ext./Code	44. Fax Number	45. E-Mail	Address	
(405) 659-8115			() ==	Scott@Babe	erEnvironmental.com	
ECTION	V. A.	thorized S	ionature			
6. By my signature b	elow. I certify	, to the best of my kno	wledge, that the information	on provided in t	his form is true and comple	ite, and that I have signature authority dentified in field 39.
o subline this form of	ochan or an	c chirty speamed in oor				
Company:	IACX Rock	c Creek, LLC		Job Title:	Director of EHS	
Name (In Print):	Justin Wh	geeler			Phone:	(972) 960- 3217
Signature:	1/1	the cold	_		Date:	6/28/24
777	1	V - C CC				

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. WQ000_____

SOLICITUD. IACX Rock Creek LLC, 5001 Lyndon B Johnson Freeway, Suite 300 Dallas, TX 75244 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WO0005355000 (EPA I.D. No. TX0009172) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de agua de rechazo de ómosis inversa para descargar a través del Emisario 001. La planta está ubicada 1000 West 10th Street, cerca de la ciudad de Borger, en el Condado de Hutchinson, Texas 79007. La ruta de descarga es del sitio de la planta a una vía afluente sin nombre de Rock Creek, de allí al río canadiense debajo del lago Meredith. La TCEQ recibió esta solicitud el día 18 de junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca del condado de Hutchinson, 625 Weatherly Street, Borger, TX 79007 antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización v 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=-101.410555,35.673888&level=18

Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary and is an application for a major amendment which will increase the pollutant loads to coastal waters or would result in relocation of an outfall to a critical area, or a renewal with such a major amendment. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. If the application is for amendment that does not meet the above description or a renewal without such a major amendment, do not include the sentence: El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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 específico. 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

También se puede obtener información adicional del IACX Rock Creek LLC a la dirección indicada arriba o llamando a Justin Wheeler al 972-960-3217.

Fecha de emisión ______[Date notice issued]

en español, puede llamar al 1-800-687-4040.

Leah Whallon

From: Blair Shackford <blair@baberenvironmental.com>

Sent: Friday, June 28, 2024 4:46 PM

To: Leah Whallon

Cc: David McWethy; Justin Wheeler; Scott Baber; Sheila Baber

Subject: Requested Documents related to IACX Rock Creek TPDES Renewal

Attachments: IACX Rock Creek LLC - Updated Core Data Form.pdf; IACX Rock Creek LLC_Industrial

Discharge Amendment Spanish NORI.docx

Follow Up Flag: Follow up Flag Status: Flagged

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- Updated Core Data Form
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Please note, in the NORI language included in your letter, the Facility address is listed as 1200 West 10th Street. This should be changed to 1000 West 10th Street. I have included this corrected address in the Spanish language NORI.

Please let me know if you have any questions or would like to discuss.

Thank you, Blair Shackford 405-476-5321

Nikita Hardy

From: Justin Wheeler < justinwheeler@iacx.com>

Sent: Tuesday, July 9, 2024 8:40 PM

To: Nikita Hardy

Subject: RE: WQ0005355000 Application **Attachments:** Section 11 - Question b revised.pdf

See attached revised page. Apologies this was inadvertently missed.

Thank you,

Justin Wheeler, CHMM, CSP

Director of Environmental, Health and Safety IACX Management 5001 LBJ Freeway, Suite 300 Dallas, Texas 75244 (972) 679-2147 – cell phone justinwheeler@iacx.com

CONFIDENTIALITY NOTICE: This electronic message contains information which may be legally confidential and/or privileged. The information is intended solely for the individual or entity named above and access by anyone else is unauthorized. If you are not the intended recipient, any disclosure, copying, distribution, or use of the contents of this information is prohibited and may be unlawful. If you have received this electronic transmission in error, please reply immediately to the sender that you have received the message in error and delete it. Thank you.

From: Nikita Hardy < Nikita. Hardy@tceq.texas.gov>

Sent: Tuesday, July 9, 2024 4:48 PM

To: Justin Wheeler < justinwheeler@iacx.com>

Subject: WQ0005355000 Application

Good afternoon Mr. Wheeler,

I am a permit writer assigned a preliminary review of the application for the IACX Rock Creek Gas Plant (WQ0005355000), and one item on the technical report needs a revision. Please answer Item 11 question 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?" Please provide the revised page 11 of the technical report via email no later than July 22. If you have any questions feel free to contact me.

Thank you,

Nikita Hardy



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

IACX Rock Creek LLC

whose mailing address is

5445 DTC Parkway Greenwood Village, Colorado 80111

is authorized to treat and discharge wastes from IACX Rock Creek Gas Plant, a natural gas processing plant (SIC 1321)

TPDES PERMIT NO. WQ0005355000

on August 7, 2020.

[For TCEQ office use only - EPA I.D. No. TX0009172]

This major amendment with

renewal replaces NPDES Permit No.

TX0009172, issued on May 22, 2019

and RRC Permit No. 00190 issued

located at 1000 West 10th Street, in the City of Borger, Hutchinson County, Texas 79007

via Outfall 001 to an unnamed tributary of Rock Creek, thence to Rock Creek, thence to Canadian River Below Lake Meridith in Segment No. 0101 of the Canadian River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:		
	For the Commission	_

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge water treatment wastes ¹, cooling tower blowdown, boiler system blowdown, stormwater, wastewaters from the zeolite treater (backwash) and the inlet air cab (moisture generated while cooling inlet air for one of the facility's turbine compressor engines) subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.0695 million gallons per day (MGD) during dry-weather discharge.

	Discharge Limitations					Minimum Self-Monitoring Requirements	
Effluent Characteristics	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
Wet-weather flow ²	Report,	MGD	Report	t, MGD	N/A	Continuous	Record
Dry-weather flow ²	0.0695, MGD		Report, MGD		N/A	Continuous	Record
Total Dissolved Solids	N/A	N/A	Report	Report	N/A	Once/six months	Grab
Biochemical Oxygen Demand,	11.59	20	17.39	30	30	Once/two weeks	Grab
5-day							
Total Residual Chlorine	N/A	N/A	N/A	0.019	0.019	Once/two weeks	Grab
Total Aluminum	N/A	N/A	N/A	Report	N/A	Once/month	Grab

- 3. The pH must not be less than 6.5 standard units nor greater than 9.0 standard units and must be monitored once/two weeks by grab sample.
- 4. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
- 5. Effluent monitoring samples must be taken at the following location: At Outfall 001 after exiting the aerated pond prior to discharge into the unnamed tributary.

Page 2 of TPDES Permit No. WQ0005355000

IACX Rock Creek LLC

¹ See Other Requirement No. 4.

² See Other Requirement No. 5.

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 \times Concentration, mg/L \times 8.34).
- g. Daily maximum loading (lbs/day) the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

- a. Composite sample For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).
- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted

online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.
As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- 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.
- 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:

- 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 $\mu g/L$); ii. two hundred micrograms per liter (200 $\mu g/L$) for acrolein and acrylonitrile; five hundred micrograms per liter (500 $\mu g/L$) 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.

- 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 μ g/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 TCEO.

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;
 - c. for the purpose of this paragraph, adequate notice shall include information on:

the quality and quantity of effluent introduced into the POTW; and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

- 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.
- 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.
- 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

- The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).

7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

- 8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
 - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
- 9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
- 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
- 11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
 - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. volume of waste and date(s) generated from treatment process;
 - ii. volume of waste disposed of on-site or shipped off-site;
 - iii. date(s) of disposal;

- iv. identity of hauler or transporter;v. location of disposal site; andvi. 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.

TCEQ Revision 05/2021

OTHER REQUIREMENTS

1. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 1 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 1 and Compliance Monitoring Team (MC 224): None.

Pollutant	MAL ¹ (mg/L)
Aluminum (Total)	0.0025
Chlorine	0.33

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

"The reported value(s) of zero for ____[list pollutant(s)]__ on the self-reporting form for _____independent of the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

2. COOLING WATER INTAKE STRUCTURE REQUIREMENTS

The permittee shall provide written notification to the TCEQ Industrial Permits Team (MC 148) and Region 1 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.

- 3. The permittee must continue to implement a stormwater pollution prevention plan (SWP3) that includes a set of best management practices (BMPs) to eliminate or lessen the exposure of stormwater to industrial activities and pollutants. The SWP3 must be maintained on site and be made readily available for review by authorized TCEQ personnel. The SWP3 must contain elements, or sections, to require implementation of the following activities:
 - A. Good Housekeeping Measures Activities must be defined and implemented to ensure areas of the facility that either contribute or potentially contribute pollutants to stormwater discharges are maintained and operated in a clean and orderly manner. The frequency for conducting each of the good housekeeping measures must be defined in the SWP3.

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¹ Minimum analytical level.

B. Spill Prevention and Response Measures - Areas must be identified where spills would likely contribute pollutants to stormwater discharges. Procedures must be identified and implemented to minimize or prevent contamination of stormwater from spills. Spill cleanup techniques must be identified and the necessary materials and equipment for cleanup made available to facility personnel. Facility personnel that work in the identified areas must be trained in spill prevention and response measures at a minimum frequency of once per year. A record of employee training must be maintained on a minimum frequency of once per year, maintained on site, and be made readily available for inspection by authorized TCEQ personnel upon request.

The SWP3 may be modified at any time in order to implement either additional or more effective pollution control measures. A summary of revisions, including the dates of the revisions, must be maintained on a quarterly basis, maintained as a part of the SWP3 document, and made readily available for inspection by authorized TCEQ personnel upon request.

Qualified personnel, who are familiar with the industrial activities performed at the facility, must conduct monthly inspections to determine the effectiveness of the Good Housekeeping Measures, Spill Prevention and Response Measures, Best Management Practices, and the Employee Training Program. The results of inspections must be documented in an inspection summary report; include an assessment for any necessary revisions or additional measures to increase effectiveness of the SWP3; and include a time frame for implementation of any follow up actions. The summary report must be maintained on site and be made readily available for inspection by authorized TCEQ personnel upon request.

- 4. The term water treatment wastes includes, but is not limited to, cold lime water treatment wastes, demineralizer backwash, filter backwash, ion exchange water treatment system wastes, membrane regeneration wastes, and reverse osmosis reject water.
- 5. The permittee shall continuously record flow via a flow meter at Outfall 001. Compliance with the flow limitations established at Outfall 001 on page 2 of this permit will be based upon days in which there is dry-weather flow only. For the purpose of this permit, dry-weather flow is defined as days in which the total flow at Outfall 001 consists of any of the following sources: water treatment wastes ², cooling tower blowdown, boiler system blowdown, wastewaters from the zeolite treater (backwash and the inlet air cab (moisture generated while cooling inlet air for one of the facility's turbine compressor engines), and stormwater runoff resulting from rainfall less than 0.1 inches in a 24-hour period. The permittee shall maintain a permanent rain gage at the plant site and keep daily records of rainfall and the resulting flow at Outfall 001. Flow at Outfall 001 during days when the rainfall exceeds 0.1 inch during any 24-hour period must not be used in calculating the daily average or daily maximum flows to be submitted on the monthly effluent report forms.
- 6. There is no mixing zone established for this discharge to an intermittent stream with perennial pools. Chronic toxic criteria apply at the point of discharge.
- 7. 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.
- 8. Products containing chromium and zinc will be prohibited from use as additives to the utility waters.

² See Other Requirement No. 4.

BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. <u>Scope, Frequency, and Methodology</u>

- 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 using 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 shall resume a quarterly testing frequency for that species until this permit is reissued.

2. <u>Required Toxicity Testing Conditions</u>

- 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;
 - a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 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..
- 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.

- 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 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 (0% effluent).
- 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 at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water 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); and
 - 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 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 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.
 - 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 lethality and significant effect 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 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. <u>Toxicity Reduction Evaluation</u>

- 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:
 - 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;

- 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;
- 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;
 - any data and substantiating documentation which 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 meet no significant lethality at the critical dilution; and
 - 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 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 the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on 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	No. 1 FROM: _		TO:	
Collected	No. 2 FROM: _		TO:	
	No. 3 FROM:_		TO:	
Test initiated: _		am/p	m	date
Dilution wat	ter 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								
В								
С								
D								
Е								
F								
G								
Н								
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

Dates and Times	No.	ı FROM:		Time		Date TO:		
Composites Collected								
Test initiated:								
Dilution wat	ter used	l:	Rece	iving wate	er	Syr	thetic dilu	tion water
		FAT	THEAD M	INNOW G	ROWTH	DATA		
Effluent		Averag	ge Dry Wei	ight in rep	licate cha	mbers	Mean Dry	CV%*
Concentration	on	A	В	С	D	Е	Weight	
0%								
32%								
42%								
56%								
75%								
100%								
PMSD								
* Coefficient of Vari	ation =	standard	deviation	x 100/me	ean			
1. Dunnett's Pr Bonferroni a								st (with
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?								
	CRI	ΓICAL DI	LUTION	(100%):		YES	NO	

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent	Percent Survival in replicate chambers Mean percent survival				survival	CV%*			
Concentration	A	В	С	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 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. <u>Scope, Frequency, and Methodology</u>

- 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.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. 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. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in item 2.b., 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 (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation 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 item 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 defined in item b.

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 item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution 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 being discharged.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of o-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 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 a "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 a "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 a "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 a "1."

4. <u>Persistent Mortality</u>

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of 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. <u>Toxicity Reduction Evaluation</u>

- 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 Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 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;

- 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 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;
- 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 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;
 - any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 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 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 Part 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	Don		Percent effluent				
Time	Rep	0%	6%	13%	25%	50%	100%
	A						
	В						
1	C						
24h	D						
	E						
	MEAN						

Enter	percent	effluent	correspo	onding to	the LC	o below:
			· · · · · · · · · · · · · · · · · · ·	. 0		,

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	Pop	Percent effluent					
Time	Rep	0%	6%	13%	25%	50%	100%
	A						
	В						
o 4h	С						
24h	D						
	Е						
	MEAN						

Enter 1	percent	effluent	corresi	ponding	to th	e LC50	below:

24 hour LC50 = _____% effluent

STATEMENT OF BASIS/TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant: IACX Rock Creek LLC; Texas Pollutant Discharge Elimination System (TPDES)

Permit No. WQ0005355000 (EPA I.D. No. TX0009172)

Regulated activity: Industrial wastewater permit

Type of application: Major amendment with renewal

Request: Major amendment with renewal to add a reverse osmosis treatment system to

supplement the treatment of onsite water and to increase the BOD₅ mass

loading limits based upon the updated flow rate.

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027;

30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection

Agency (EPA) guidelines

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

REASON FOR PROJECT PROPOSED

The applicant applied to the Texas Commission on Environmental Quality (TCEQ) for an amendment of its existing permits [Railroad Commission of Texas (RRC) Discharge Permit No.00190 and U.S. Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Permit No. TX0009172] which are now combined into a single TPDES permit (No. WQ0005355000). The proposed amendment would authorize the addition of a reverse osmosis treatment system to supplement the treatment of onsite water and to increase the BOD5 mass loading limits based upon the updated flow rate. The reject water from this system will constitute an added waste stream.

PROJECT DESCRIPTION AND LOCATION

The applicant currently operates IACX Rock Creek Gas Plant, a natural gas processing plant.

The plant receives compressed natural gas from surrounding booster plants. The natural gas is sweetened by contacting it with amine to remove hydrogen sulfide and carbon dioxide. The natural gas is then dehydrated by contacting it with both glycol and molecular sieve dehydration units. The treated gas is further compressed and processed through the cryogenic liquids recovery unit. The natural gas liquids product is sent via pipeline to a refinery for further processing.

The wastewater system consists of reverse osmosis reject water, cooling tower blowdown, boiler system blowdown, stormwater, wastewater from the zeolite treater (backwash) and moisture generated while cooling inlet air for one of the facility's turbine compressor engines. The wastewater is collected and routed through two ponds. The skimmer pond allows for primary settling and oil/water separation. Wastewater is then routed to a second pond, functioning as an aeration basin before discharge through Outfall 001. Sanitary waste is treated in the permitted septic system, septic tank, and non-discharging leach field on site. For RO treatment systems TCEQ uses the term "water treatment wastes" as the waste stream authorized for discharge as there may be some incidental discharges associated with RO treatment systems such as periodic cleaning of the membranes, etc.

The facility is located at 1000 West 10th Street, in the City of Borger, Hutchinson County, Texas 79007.

Discharge Route and Designated Uses

The effluent is discharged to an unnamed tributary of Rock Creek, thence to Rock Creek, thence to Canadian River Below Lake Meredith in Segment No. 0101 of the Canadian River Basin. The unclassified receiving water uses are limited aquatic life use for the unnamed tributary and limited for Rock Creek. The designated uses for Segment No. 0101 are primary contact recreation and high aquatic life use. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

Antidegradation Review

In accordance with 30 Texas Administrative Code §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. This review has preliminarily determined that no water bodies with exceptional, high, or intermediate aquatic life uses are present within the stream reach assessed; therefore, no Tier 2 degradation determination is required. No significant degradation of water quality is expected in water bodies with exceptional, high, or intermediate aquatic life uses downstream, and 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

A priority watershed of critical concern has been identified in Segment 0101 in Hutchinson County. Therefore, *Notropis girardi*, Arkansas River shiner, a threatened aquatic species, has been determined to occur in the watershed of Segment 0101. To make this determination for Texas Pollutant Discharge Elimination System (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 United States Fish and Wildlife Service's (USFWS) biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The presence of the threatened Arkansas River shiner requires EPA review and if appropriate, consultation with USFWS.

Impaired Water Bodies

Segment No. 0101 is not currently listed on the State's inventory of impaired and threatened waters, the 2022 Clean Water Act Section 303(d) list. However, Rock Creek is listed in the 2022 303 (d) list for bacteria in water from the confluence with the Canadian River up to SH 136 in the City of Borger (101B_01). The draft permit does not authorize the discharge of domestic wastewater and has no other known sources of bacteria at the facility; therefore, it is not expected to cause or contribute to the impairment.

Completed Total Maximum Daily Loads (TMDLs)

There are no completed TMDLs for Segment No. 0101.

Dissolved Oxygen

A dissolved oxygen analysis of the referenced discharge was conducted using an uncalibrated QUAL-TX model for an effluent flow of 0.0695 MGD. Based on model results, the technology-based effluent limits of 20 mg/L BOD5 (11.59 lbs/day), modeled with 2.0 mg/L DO, are predicted to be adequate to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team

for the unnamed tributary (3.0 mg/L), Rock Creek (3.0 mg/L), and Canadian River Below Lake Meredith (5.0 mg/L).

SUMMARY OF EFFLUENT DATA

The following is a quantitative description of the discharge described in the monthly effluent report data for the period of May 2019 through June 2024. The "Avg of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "Max of Daily Max" values presented in the following table are the individual maximum values for the reporting period for each pollutant. All pH values are expressed in standard units (SU). Flows are expressed in million gallons per day (MGD). Note: the flow values listed below are for the total Outfall 001 flow, which includes wet weather flow with stormwater per the existing NPDES permit. The flow limits proposed later on in the draft permit package are for dry weather flow only.

Flow

Outfall	Frequency	Avg of Daily Avg, MGD	Max of Daily Max, MGD
001	Continuous	0.054	0.612

Effluent Characteristics

Outfall	Pollutant	Avg of Daily Avg		Max of Daily Max	
Outlan	Pollutant	lbs/day	mg/L	lbs/day	mg/L
001	Total Dissolved Solids (TDS)	306.20	972.15	564.86	1240.00
	Biochemical Oxygen Demand 5-Day	4.14	7.99	50.69	50.20
	(BOD_5)				
	Total Residual Chlorine	N/A	N/A	N/A	0.11
	рН	6.6 (m	inimum)	8.9 (m	aximum)

Effluent limit violations documented in the monthly effluent reports are summarized in the following table.

Effluent Limitation Violations

	- "		Daily	Average	Daily M	aximum
Outfall	Pollutant (units)	Report Date	Limit	Reported	Limit	Reported
001	BOD ₅ (mg/L)	05/31/2019	20 mg/L	-	30 mg/L	36 mg/L
			7.51 lbs/day	-	11.26 lbs/day	12.25 lbs/day
	BOD5 (mg/L)	10/31/2020	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	13.19 lbs/day	11.26 lbs/day	25.35 lbs/day
	BOD ₅ (mg/L)	03/31/2021	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	8.15 lbs/day	11.26 lbs/day	12.67 lbs/day
	BOD ₅ (mg/L)	03/31/2022	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	7.77 lbs/day	11.26 lbs/day	-
	BOD ₅ (mg/L)	04/30/2022	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	8.79 lbs/day	11.26 lbs/day	12.88 lbs/day
	BOD ₅ (mg/L)	05/31/2022	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	11.49 lbs/day	11.26 lbs/day	15.17 lbs/day
	BOD ₅ (mg/L)	06/30/2022	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	12.26 lbs/day	11.26 lbs/day	14.58 lbs/day
	BOD ₅ (mg/L)	07/31/2022	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	24.70 lbs/day	11.26 lbs/day	34.55 lbs/day
	BOD ₅ (mg/L)	07/31/2023	20 mg/L	-	30 mg/L	-
			7.51 lbs/day	10.39 lbs/day	11.26 lbs/day	14.19 lbs/day

Effluent Limitation Violations

Outfall	Pollutant (units)	Donort Data	Daily A	Average	Daily Maximum	
Outian	Foliutalit (ullits)	Report Date	Limit	Reported	Limit	Reported
	BOD ₅ (mg/L)	01/31/2024	20 mg/L	21.5 mg/L	30 mg/L	50.2 mg/L
			7.51 lbs/day	17.61 lbs/day	11.26 lbs/day	50.69 lbs/day
	BOD ₅ (mg/L)	02/29/2024	20 mg/L	24.2 mg/L	30 mg/L	33.3 mg/L
			7.51 lbs/day	-	11.26 lbs/day	-
	Total Residual	05/31/2019	N/A	N/A	0.019 mg/L	0.11 mg/L
	Chlorine					
001	Total Residual	06/30/2019	N/A	N/A	0.019 mg/L	0.06 mg/L
	Chlorine					
	Total Residual	07/31/2019	N/A	N/A	0.019 mg/L	0.06 mg/L
	Chlorine					
	Total Residual	11/30/2020	N/A	N/A	0.019 mg/L	0.09 mg/L
	Chlorine					
	Total Residual	12/31/2020	N/A	N/A	0.019 mg/L	0.02 mg/L
	Chlorine					

The draft permit was not changed to address the BOD_5 concentration effluent limit violations because according to the applicant, during the first quarter of 2024 the reverse osmosis unit was kept running to prevent equipment damage due to freezing. This created an excess flow of RO reject water which was discharged, which increased the rate of water flow into and out of the pond. This increase caused the water to have less retention time, which caused TOC to increase for a few days. Increased TOC is indicative of the increase of BOD. Further data suggests that this is an isolated event due to volatile weather and not reflective of a change in overall operations.

The Total Residual Chlorine violations are limited in nature and have not occurred since December 2020. Therefore, the draft permit was not changed to address these exceedances.

The other BOD_5 violations with the exception of the May 2019 violation are all loading violations, not concentration based. The existing permit does not have a flow limit, thus the BOD_5 loading limit in the existing permit was calculated based on the highest flow volume reported during the previous permit cycle (0.045 MGD). The majority of the BOD_5 violations occurred during periods of increased flow. A flow limit has been proposed in the draft permit and the BOD_5 loading limits have been adjusted based upon the proposed flow limit.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the discharge of water treatment wastes, cooling tower blowdown, boiler system blowdown, stormwater, wastewater from the zeolite treater (backwash) and the inlet air cab (moisture generated while cooling inlet air for one of the facility's turbine compressor engines) at a daily average flow not to exceed 69,500 gallons per day via Outfall 001.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L	Daily Average lbs/day	Daily Max lbs/day
001	Wet-Weather Flow, MGD	Report	Report	N/A	N/A
	Dry-Weather Flow, MGD	0.0695	Report	N/A	N/A

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L	Daily Average lbs/day	Daily Max lbs/day
	Total Dissolved Solids (TDS)	N/A	Report	N/A	Report
	Biochemical Oxygen Demand 5-Day (BOD5)	20 mg/L	30 mg/L	11.59	17.39
	Total Residual Chlorine	N/A	0.019	N/A	N/A
	Total Aluminum	N/A	Report	N/A	N/A
	pН	6.5 SU (minimum)		9.0 SU (maximum)	

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	35.672500 N	-101.409170 W

Technology-Based Effluent Limitations

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. There are no applicable ELGs for the discharges from this facility. A daily average dry-weather flow limit of 0.0695 MGD (2-year flow average per the critical conditions memo) has been added to the draft permit. The current NPDES and RRC permits contain technology-based limits and monitoring requirements for BOD₅ at Outfall 001. The existing BOD₅ limitations are expressed in terms of both mass and concentration. The existing BOD₅ concentration limitations of 20 mg/l average and 30 mg/l maximum are continued in the draft permit. The mass limitations have been modified based upon the increased flow from 0.047 MGD to 0.0695 MGD per the daily average dry-weather flow limit. The addition of the reverse osmosis treatment system to this facility and the addition of RO reject water as an allowable waste stream constitutes a substantial alteration of the permitted facility which complies with EPA's anti-backsliding requirements in 40 CFR Part 122.44(l). The daily average effluent loadings, in lbs/day, were calculated using the treatment facility's daily average flow of 0.0695 MGD, the respective pollutant's daily average concentration (mg/l), and the conversion factor of 8.34. Similarly, the daily maximum effluent loadings in lbs/day, were calculated using the treatment facility's daily average flow of 0.0695 MGD, the respective pollutant's daily maximum concentration (mg/l), and the conversion factor of 8.34. Development of technology-based effluent limitations is presented in Appendix A.

Water Quality-Based Effluent Limitations

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix B. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated August 21, 2024. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

Data reported in the application was screened against the calculated water quality-based effluent limitations. Reported analytical data for total aluminum via Outfall 001 (662.75 µg/L) exceeded 70

percent (584 μ g/L) but was less than 85 percent (709 μ g/L) of the calculated daily average water quality-based effluent limitation screening values for aquatic life protection. Monitoring and reporting requirements for total aluminum have been added at Outfall 001 for the protection of aquatic life.

The existing NPDES and RRC permits establish water quality based limits and monitoring requirements for total residual chlorine. These requirements are continued in the draft permit based upon EPA's anti-backsliding requirements.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening

The existing RRC and NPDES permits have monitoring and reporting requirements for TDS, therefore a TDS, chloride and sulfate screening was conducted. Screening procedures and effluent limitations for TDS, chloride, and sulfate are calculated using the methodology in the *Procedures to Implement the Texas Surface Water Quality Standards*, June 2010, and criteria in the *Texas Surface Water Quality Standards* (30 TAC Chapter 307). Detailed calculations are presented in Appendix C. Based on the screening, no additional effluent limitations or monitoring and reporting requirements are needed for TDS, chloride, and sulfate. The TDS monitoring requirements from the existing RRC and NPDES permits have been continued in the draft permit, and the condition to report the daily average concentration and mass values has been removed as the sampling frequency is only once per six months.

pH Screening

The existing permits include pH limits of 6.5 - 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 - 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. The existing NPDES and RRC permits include pH limits of 6.5 - 9.0 SU at Outfall 001 which is the segment criteria for Segment No. 0101. These limits are continued in the draft permit based on EPA anti-backsliding regulations in 40 CFR Section 122.44(l).

316(b) Cooling Water Intake Structures

The facility obtains water from Borger Municipal Water System, a public water system (PWS No. TX1170001), for cooling purposes. The use of water obtained from a public water system for cooling purposes does not constitute the use of a cooling water intake structure; therefore, the facility is not subject to Section 316(b) of the CWA or 40 CFR Part 125, Subpart J.

The Other Requirement No. 2 has been added to the draft permit and requires 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.

Whole Effluent Toxicity Testing (Biomonitoring)

The existing NPDES and RRC permits establish chronic biomonitoring requirements, thus biomonitoring is required as a condition of this draft permit. The following determinations were made and summarized in the interoffice memorandum (IOM) from the Water Quality Assessment Team dated April 22, 2025.

The following information applies to Outfall 001. We recommend freshwater chronic and 24-hour acute testing. For chronic testing, we recommend the water flea (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promelas*) as test species and a testing frequency of once per quarter for both test species. We recommend a dilution series of 32%, 42%, 56%, 75%, and 100% with a critical

dilution of 100%. The critical dilution is established at 100% effluent based on the discharge being to an intermittent stream with perennial pools.

For 24-hour acute testing, we recommend a water flea (*Ceriodaphnia dubia or Daphnia pulex*) and the fathead minnow as test species and a testing frequency of once per six months for both test species.

In the past three years, the permittee has performed eight chronic tests at Outfall 001, 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 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 both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

SUMMARY OF CHANGES FROM APPLICATION

The following changes have been made from the application, which make the draft permit more stringent.

- 1. Monitoring and reporting requirements for total aluminum have been added at Outfall 001 for the protection of aquatic life. This was added due to the reported analytical data for total aluminum via Outfall 001 (662.75 μ g/L) exceeding 70 percent (584 μ g/L) but less than 85 percent (709 μ g/L) of the calculated daily average water quality-based effluent limitation screening values for aquatic life protection.
- 2. A dry weather daily average flow limit of 0.0695 MGD has been added at Outfall 001.
- 3. 24-hour acute WET testing has been added to the draft permit because all TPDES permits that require chronic biomonitoring also require 24-hour acute biomonitoring consistent with the Implementation Procedures.
- 4. The chronic biomonitoring testing frequency is increasing from once per six months to once per quarter (for the first year) consistent with the Implementation Procedures.
- 5. The chronic biomonitoring critical dilution has become more stringent (100% vs 3.2% in the existing NPDES/RRC permits). The change occurs because the discharge is to perennial pools with a resulting 100% dilution whereas the EPA/RRC authorized the dilutions be applied further downstream to perennial waters.
- 6. Pond liner language has been added to the draft permit. This is standard practice for TPDES permits where ponds are used for effluent treatment to protect groundwater.

SUMMARY OF CHANGES FROM EXISTING PERMITS

The permittee requested the following changes in their amendment request that the Executive Director has recommended granting.

- 1. Add a reverse osmosis treatment system to supplement the treatment of onsite water. The reject water from this system will constitute an added waste stream.
- 2. Increase the BOD₅ mass loading limits based upon the updated flow rate.

The following additional changes have been made to the draft permit.

- 1. The standard TPDES permit conditions found on pages 3-13 of this draft vary from the standard conditions in the existing NPDES and RRC permits, and are established in the draft permit.
- 2. Other Requirement No. 2 was added to the draft permit to address cooling water intake structure requirements under CWA §316(b). Although CWA §316(b) does not currently apply to this facility, the applicant would be required to notify the TCEQ if there is a change in how the facility obtains cooling water.
- 3. A daily average dry-weather flow limit of 0.0695 MGD was added to the draft permit per correspondence with applicant and per reported 2-year average flow data.
- 4. The TDS daily average mass and concentration reporting requirements were removed because the sampling frequency is only once every six months.
- 5. A provision has been added to the Other Requirements section prohibiting the discharge of domestic wastewater.
- 6. The stormwater pollution prevention plan language has been revised from the existing NPDES permit to be consistent with other TPDES permits.
- 7. Added an MAL of 0.033 mg/L for chlorine in the Other Requirements section due to the effluent limitation being established at a value of 0.019 mg/L in the existing NPDES permit.
- 8. The chronic biomonitoring testing requirement has been changed from once every six months to once every quarter per Water Quality Assessment Section memo.
- 9. The chronic biomonitoring critical dilution and dilution concentrations have been made more stringent than what is found in the existing NPDES and RRC permits per Water Quality Assessment Section memo.
- 10. 24-hour acute biomonitoring requirements have been added to the draft per Water Quality Assessment Section memo.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on June 18, 2024, and additional information received on July 9, 2024, January 30, 2025, April 11, 2025, April 14, 2025, May 29, 2025, July 7, 2025, October 28, 2025 and October 29, 2025.
- 2. Existing permits: NPDES Permit No. TX0009172 issued on May 22, 2019 and RRC Permit No. 00190 issued on August 7, 2020.
- 3. TCEQ Rules.

- 4. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
- 5. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
- 6. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
- 7. *Texas Surface Water Quality Standards* 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.
- 8. Procedures to Implement the Texas Surface Water Quality Standards (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
- 9. Procedures to Implement the Texas Surface Water Quality Standards, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
- 10. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
- Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
- 12. EPA Effluent Guidelines: N/A.
- 13. Consistency with the Coastal Management Plan: N/A
- 14. 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).
- 15. 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).
- 16. 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).
- 17. 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).
- 18. General Guidance Industrial Permits: Uncontaminated Stormwater Runoff, EPA, January 1997.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. At that time, the combined Notice of Receipt of Application and Intent to Obtain Permit/Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice.

This combined notice is being issued because the applicant's mailing address and permittee contact information has changed from what was listed in the original NORI, and the applicant submitted a revised major amendment request to increase the BOD_5 mass loading limits based upon the updated flow rate. The original NORI also did not list all of the authorized waste streams, and the revised NORI/NAPD uses the term "water treatment wastes" instead of reverse osmosis reject water as in the original NORI. This combined notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Nikita Hardy at (512) 239-3045.

<u>Níkíta Hardy</u>	October 29, 2025
Nikita Hardy	Date

Appendix A Calculated Technology-Based Effluent Limits

Limitations for Biochemical Oxygen Demand (5-day) are proposed in the draft permit and are expressed in terms of both mass and concentration. This is consistent with both EPA and TCEQ permits for similar facilities. The proposed limitation for BOD (5-day) at Outfall 001 is 20 mg/l daily average and 30 mg/l daily maximum. The effluent loadings, in lbs/day, were calculated using the treatment facility's daily average flow of 0.0695 MGD as requested by the applicant, the respective pollutant's daily average concentration (mg/l), and the conversion factor of 8.34. The formulas used in the calculations are presented below:

Loading, lbs/day = Flow (MGD) * 8.34 lbs/gal * concentration (mg/l)

Daily Average (lbs/day) BOD (5-day) = 0.0695 MGD * 8.34 lbs/day * 20 mg/l = 11.59 lbs/day

Daily Max. (lbs/day) BOD (5-day) = 0.0695 MGD * 8.34 lbs/day * 30 mg/l = 17.39 lbs/day

Appendix B Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #7 - INTERMITTENT STREAM WITH PERENNIAL POOLS

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life Table 2, 2018 Texas Surface Water Quality Standards for Human Health, Incidental Fishery "Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name: IACX Rock Creek, LLC
TPDES Permit No.: WQ0005355000
Outfall No.: 001
Prepared by: Nikita Hardy
Date: 04/10/2025

DISCHARGE INFORMATION	
Intermittent Receiving Waterbody:	Unnamed tributary
Segment No.:	101
TSS (mg/L):	5
pH (Standard Units):	7.5
Hardness (mg/L as CaCO₃):	483
Chloride (mg/L):	820
Effluent Flow for Aquatic Life (MGD):	0.0695
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Chronic Aquatic Life:	100
% Effluent for Acute Aquatic Life:	100
Effluent Flow for Human Health (MGD):	0.0695
Harmonic Mean Flow (cfs):	0.1
% Effluent for Human Health:	51.815

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	Intercept (b)	Slope (m)	Partition Coefficient (Kp)	Dissolved Fraction (Cd/Ct)	Source	Water Effect Ratio (WER)	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	147826.36	0.575		1.00	Assumed
Cadmium	6.60	-1.13	645897.93	0.236		1.00	Assumed
Chromium (total)	6.52	-0.93	741238.38	0.212		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	741238.38	0.212		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	318245.45	0.386		1.00	Assumed
Lead	6.45	-0.80	777721.31	0.205		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	195698.32	0.505		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	457152.29	0.304		1.00	Assumed
Zinc	6.10	-0.70	408057.15	0.329		1.00	Assumed

AQUATIC LIFE
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	FW Acute Criterion (µg/L)	FW 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	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	591	261	339	201	295	624
Cadmium	39.6	0.733	167	3.10	95.9	2.39	3.50	7.42
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00400	1.38	0.00308	0.00452	0.00957
Chlorpyrifos	0.083	0.041	0.0830	0.0410	0.0476	0.0316	0.0464	0.0981
Chromium (+3)	2069	269	9739	1267	5580	975	1433	3033
Chromium (+6)	15.7	10.6	15.7	10.6	9.00	8.16	11.9	25.3
Copper	62.6	36.4	162	94.2	93.0	72.6	106	225
Cyanide (free)	45.8	10.7	45.8	10.7	26.2	8.24	12.1	25.6
4,4'-DDT	1.1	0.001	1.10	0.00100	0.630	0.000770	0.00113	0.00239
Demeton	N/A	0.1	N/A	0.100	N/A	0.0770	0.113	0.239
Diazinon	0.17	0.17	0.170	0.170	0.0974	0.131	0.143	0.302
Dicofol	59.3	19.8	59.3	19.8	34.0	15.2	22.4	47.4
Dieldrin	0.24	0.002	0.240	0.00200	0.138	0.00154	0.00226	0.00478
Diuron	210	70	210	70.0	120	53.9	79.2	167
Endosulfan I (alpha)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan II (beta)	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endosulfan sulfate	0.22	0.056	0.220	0.0560	0.126	0.0431	0.0633	0.134
Endrin	0.086	0.002	0.0860	0.00200	0.0493	0.00154	0.00226	0.00478
Guthion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Heptachlor	0.52	0.004	0.520	0.00400	0.298	0.00308	0.00452	0.00957
Hexachlorocyclohexane (Lindane)	1.126	0.08	1.13	0.0800	0.645	0.0616	0.0905	0.191
Lead	340	13.26	1664	64.8	953	49.9	73.3	155
Malathion	N/A	0.01	N/A	0.0100	N/A	0.00770	0.0113	0.0239
Mercury	2.4	1.3	2.40	1.30	1.38	1.00	1.47	3.11
Methoxychlor	N/A	0.03	N/A	0.0300	N/A	0.0231	0.0339	0.0718
Mirex	N/A	0.001	N/A	0.00100	N/A	0.000770	0.00113	0.00239
Nickel	1775	197.1	3511	390	2012	300	441	933
Nonylphenol	28	6.6	28.0	6.60	16.0	5.08	7.47	15.8
Parathion (ethyl)	0.065	0.013	0.0650	0.0130	0.0372	0.0100	0.0147	0.0311
Pentachlorophenol	14.4	11.1	14.4	11.1	8.26	8.52	12.1	25.6

Phenanthrene	30	30	30.0	30.0	17.2	23.1	25.2	53.4
Polychlorinated Biphenyls (PCBs)	2.0	0.014	2.00	0.0140	1.15	0.0108	0.0158	0.0335
Selenium	20	5	20.0	5.00	11.5	3.85	5.65	11.9
Silver	0.8	N/A	29.3	N/A	16.8	N/A	24.6	52.1
Toxaphene	0.78	0.0002	0.780	0.000200	0.447	0.000154	0.000226	0.000478
Tributyltin (TBT)	0.13	0.024	0.130	0.0240	0.0745	0.0185	0.0271	0.0574
2,4,5 Trichlorophenol	136	64	136	64.0	77.9	49.3	72.4	153
Zinc	445	449	1353	1364	775	1050	1139	2410

HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

	Incidental				
	Fish				
	Criterion	WLAh	LTAh	Daily Avg.	Daily Max.
Parameter	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
Acrylonitrile	1150	2219	2064	3034	6419
Aldrin	1.147E-04	0.000221	0.000206	0.000302	0.000640
Anthracene	13170	25418	23638	34748	73515
Antimony	10710	20670	19223	28257	59783
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	5810	11213	10428	15329	32431
Benzidine	1.07	2.07	1.92	2.82	5.97
Benzo(a)anthracene	0.25	0.482	0.449	0.659	1.39
Benzo(a)pyrene	0.025	0.0482	0.0449	0.0659	0.139
Bis(chloromethyl)ether	2.745	5.30	4.93	7.24	15.3
Bis(2-chloroethyl)ether	428.3	827	769	1130	2390
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)					
phthalate]	75.5	146	136	199	421
Bromodichloromethane [Dichlorobromomethane]	2750	5307	4936	7255	15350
Bromoform [Tribromomethane]	10600	20458	19026	27967	59169
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	460	888	826	1213	2567
Chlordane	0.025	0.0482	0.0449	0.0659	0.139
Chlorobenzene	27370	52823	49125	72214	152779
Chlorodibromomethane [Dibromochloromethane]	1830	3532	3285	4828	10215
Chloroform [Trichloromethane]	76970	148549	138150	203081	429647
Chromium (hexavalent)	5020	9688	9010	13244	28021
Chrysene	25.2	48.6	45.2	66.4	140
Cresols [Methylphenols]	93010	179505	166940	245401	519183

Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.02	0.0386	0.0359	0.0527	0.111
4,4'-DDE	0.0013	0.00251	0.00233	0.00342	0.00725
4,4'-DDT	0.004	0.00772	0.00718	0.0105	0.0223
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	4730	9129	8490	12479	26402
1,2-Dibromoethane [Ethylene Dibromide]	42.4	81.8	76.1	111	236
m-Dichlorobenzene [1,3-Dichlorobenzene]	5950	11483	10679	15698	33212
o-Dichlorobenzene [1,2-Dichlorobenzene]	32990	63669	59212	87042	184150
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	22.4	43.2	40.2	59.1	125
1,2-Dichloroethane	3640	7025	6533	9603	20318
1,1-Dichloroethylene [1,1-Dichloroethene]	551140	1063676	989219	1454152	3076471
Dichloromethane [Methylene Chloride]	133330	257321	239309	351783	744249
1,2-Dichloropropane	2590	4999	4649	6833	14457
1,3-Dichloropropene [1,3-Dichloropropylene]	1190	2297	2136	3139	6642
Dicofol [Kelthane]	3	5.79	5.38	7.91	16.7
Dieldrin	2.0E-04	0.000386	0.000359	0.000527	0.00111
2,4-Dimethylphenol	84360	162811	151414	222579	470898
Di-n-Butyl Phthalate	924	1783	1658	2437	5157
Dioxins/Furans [TCDD Equivalents]	7.97E-07	0.0000015	0.0000014	0.0000021	0.0000044
Endrin	0.2	0.386	0.359	0.527	1.11
Epichlorohydrin	20130	38850	36131	53111	112365
Ethylbenzene	18670	36032	33510	49259	104216
Ethylene Glycol	1.68E+08	324232748	301536456	443258590	937778377
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.001	0.00193	0.00179	0.00263	0.00558
Heptachlor Epoxide	0.0029	0.00560	0.00521	0.00765	0.0161
Hexachlorobenzene	0.0068	0.0131	0.0122	0.0179	0.0379
Hexachlorobutadiene	2.2	4.25	3.95	5.80	12.2
Hexachlorocyclohexane (alpha)	0.084	0.162	0.151	0.221	0.468
Hexachlorocyclohexane (beta)	2.6	5.02	4.67	6.85	14.5
Hexachlorocyclohexane (gamma) [Lindane]	3.41	6.58	6.12	8.99	19.0
Hexachlorocyclopentadiene	116	224	208	306	647
Hexachloroethane	23.3	45.0	41.8	61.4	130
Hexachlorophene	29	56.0	52.1	76.5	161
4,4'-Isopropylidenediphenol [Bisphenol A]	159820	308446	286855	421676	892117
Lead					
	38.3	361	336	494	1045

Methoxychlor	30	57.9	53.8	79.1	167
Methyl Ethyl Ketone	9.92E+06	19145172	17805010	26173364	55373580
Methyl tert-butyl ether [MTBE]	104820	202298	188137	276561	585106
Nickel	11400	43530	40483	59509	125901
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	18730	36148	33618	49418	104551
N-Nitrosodiethylamine	21	40.5	37.7	55.4	117
N-Nitroso-di- <i>n</i> -Butylamine	42	81.1	75.4	110	234
Pentachlorobenzene	3.55	6.85	6.37	9.36	19.8
Pentachlorophenol	2.9	5.60	5.21	7.65	16.1
Polychlorinated Biphenyls [PCBs]	6.40E-03	0.0124	0.0115	0.0168	0.0357
Pyridine	9470	18277	16997	24986	52861
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.4	4.63	4.31	6.33	13.3
1,1,2,2-Tetrachloroethane	263.5	509	473	695	1470
Tetrachloroethylene [Tetrachloroethylene]	2800	5404	5026	7387	15629
Thallium	2.3	4.44	4.13	6.06	12.8
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.11	0.212	0.197	0.290	0.614
2,4,5-TP [Silvex]	3690	7122	6623	9735	20597
1,1,1-Trichloroethane	7843540	15137694	14078055	20694740	43782751
1,1,2-Trichloroethane	1660	3204	2979	4379	9266
Trichloroethylene [Trichloroethene]	719	1388	1291	1897	4013
2,4,5-Trichlorophenol	18670	36032	33510	49259	104216
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	165	318	296	435	921

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Parameter (μg/L) (μg/L) Aldrin 1.76 2.14 Aluminum 584 709 Arsenic 206 250 Cadmium 2.45 2.98 Carbaryl 1.17 1.43 Chlordane 0.0324 0.0394 Chlorpyrifos 0.0324 0.0394 Chromium (+8) 1003 1212 Chromium (+6) 8.39 10.01 Copper 74.6 90.6 Cyanide (free) 8.47 10.0 Diazinon 0.100 0.0012 Diazinon 0.100 0.0012 Diazino 0.100 0.0012	Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Aluminum 584 709 Arsenic 206 250 Cadmium 2.45 2.98 Carbaryl 1.17 1.43 Chlordane 0.0314 0.0334 Chlorpyrifos 0.0324 0.0394 Chromium (+3) 1003 1218 Chromium (+6) 3.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4'-DDT 0.00792 0.00962 Demeton 0.0792 0.0062 Diazinon 0.10 0.121 Dicofol 15.6 19.0 Dieldrin 0.54 6.73 Endosulfan (alpha) 0.043 0.0338 Endosulfan (alpha) 0.043 0.0538 Endosulfan (alpha) 0.043 <th>Parameter</th> <th>(μg/L)</th> <th>(μg/L)</th>	Parameter	(μg/L)	(μg/L)
Arsenic 206 250 Cadmium 2.45 2.98 Carbaryl 1.17 1.43 Chiordane 0.00316 0.00384 Chiorprifos 0.0324 0.0394 Chromium (+3) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.02 4,4"-DDT 0.00792 0.00962 Demeton 0.0792 0.00962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.043 0.0538 Endosulfan (alpha) <td< td=""><td>Aldrin</td><td>1.76</td><td>2.14</td></td<>	Aldrin	1.76	2.14
Cadmium 2.45 2.98 Carbaryl 1.17 1.43 Chlordane 0.00316 0.00384 Chlorpyrifos 0.032 0.00394 Chromium (+3) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4'-DDT 0.000792 0.00062 Demeton 0.0792 0.00962 Diedron 0.100 0.121 Dicofol 15.6 19.0 Divoron 55.4 67.3 Endosulfan (alpha) 0.0413 0.0338 Endosulfan (alpha) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endosulfan (beta) 0.0043 0.0538 Endosulfan (beta) 0.00318 0.00192 Meyathlor 0.0032 0.0053 Meyathlor	Aluminum	584	709
Carbaryl 1.17 1.43 Chlordane 0.00316 0.00384 Chlorpyrifos 0.0324 0.0394 Chromium (+3) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4°-DDT 0.000792 0.00620 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.043 0.0538	Arsenic	206	250
Chlordane 0.00316 0.00348 Chlorpyrifos 0.0324 0.0394 Chromium (+3) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4°-DDT 0.00792 0.00962 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.043 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.0063 Endrin 0.00318 0.00192 Guthion 0.00792 0.00682 Heptachlor 0.0033 0.0769 Buthion 0.00792 0.00682 Heptachlor 0.0033 0.0769 Mecauti 0.0033 0	Cadmium	2.45	2.98
Chlorpyrifos 0.0324 0.0394 Chromium (+3) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 Quantity (Free) 0.000792 0.000962 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.038 Endosulfan (beta) 0.0443 0.0538 Endosulfan (beta) 0.00158 0.00192 Guthion 0.00792 0.00962 Hetyachlorine 0.0034 0.0769	Carbaryl	1.17	1.43
Chromium (+6) 1003 1218 Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4'-DDT 0.000792 0.00962 Demeton 0.0792 0.00962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00158 0.00192 Guthion 0.00743 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.0062 Heptachlor 0.00316 0.0038 Heptachlor 0.00316 0.0038 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Methoxychlor 0.02	Chlordane	0.00316	0.00384
Chromium (+6) 8.39 10.1 Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4'-DDT 0.000792 0.000962 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.0019 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endorin 0.00158 0.00192 Guthion 0.00158 0.00192 Guthion 0.00158 0.00192 Hexachlorocyclohexane (Lindane) 0.0633 0.0792 Hexachlorocyclohexane (Lindane) 0.0633 0.0792 Mercury 1.03 1.25 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.00962 Nonylphenol	Chlorpyrifos	0.0324	0.0394
Copper 74.6 90.6 Cyanide (free) 8.47 10.2 4,4'-DDT 0.000792 0.00062 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0388 Endosulfan (beta) 0.0443 0.0388 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00158 0.00192 Guthion 0.00792 0.00962 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Hexachlor 0.0033 0.0769 Mercury 1.03 1.25 Mercury 1.03 1.25 Mercury 1.03 1.25 Mirex 0.000792 0.00962 Non-liphenol 5.22 6.34 Parathion (ethyl) 0.010	Chromium (+3)	1003	1218
Cyanide (free) 8.47 10.2 4,4'-DDT 0.000792 0.000962 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0333 0.0769 Lead 51.3 62.3 Mercury 1.03 1.25 Mercury 1.03 1.25 Mercury 0.00792 0.00962 Mirex 0.000792 0.00962 Mickel 308 375 Nonylphenol 5.22 6.34 Pentachlorophenol 8.50	Chromium (+6)	8.39	10.1
4,4'-DDT 0.000792 0.00062 Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endosulfan sulfate 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.0038 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.028 Mirex 0.000792 0.00962 Mickel 308 3.5 Nonylphenol 5.22 6.34 Pentachlorophenol 8.50 10.3 Pentachlorophenol	Copper	74.6	90.6
Demeton 0.0792 0.0962 Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.0331 0.0789 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.00962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Selenium 3	Cyanide (free)	8.47	10.2
Diazinon 0.100 0.121 Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.0384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Mercury 1.03 1.25 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium	4,4'-DDT	0.000792	0.000962
Dicofol 15.6 19.0 Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.00792 0.00962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 <th< td=""><td>Demeton</td><td>0.0792</td><td>0.0962</td></th<>	Demeton	0.0792	0.0962
Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.00962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Pentachlorophenol 8.50 10.3 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene	Diazinon	0.100	0.121
Dieldrin 0.00158 0.00192 Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.00962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.014 Silver 17.2 2.0 T	Dicofol	15.6	19.0
Diuron 55.4 67.3 Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxa	Dieldrin		0.00192
Endosulfan (alpha) 0.0443 0.0538 Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonlylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.00158 0.000192 Tributyltin (TBT) 0.019 0.0230 2,4,5 Trich			
Endosulfan (beta) 0.0443 0.0538 Endosulfan sulfate 0.0443 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Zinc 797 968 Human Health </td <td></td> <td></td> <td></td>			
Endosulfan sulfate 0.043 0.0538 Endrin 0.00158 0.00192 Guthion 0.00792 0.0962 Heptachlor 0.00316 0.0384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.00792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tibutyltin (TBT) 0.0190 0.0230 Zinc 797 968 Human Health			
Endrin 0.00158 0.00192 Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health </td <td></td> <td></td> <td></td>			
Guthion 0.00792 0.00962 Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Pa			
Heptachlor 0.00316 0.00384 Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health 70% of Daily Avg. Daily Avg. Parameter (μg/L) (μg/L)			
Hexachlorocyclohexane (Lindane) 0.0633 0.0769 Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldri			
Lead 51.3 62.3 Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257	<u> </u>		
Malathion 0.00792 0.00962 Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257	. , , , ,		
Mercury 1.03 1.25 Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (µg/L) (µg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257			
Methoxychlor 0.0237 0.0288 Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257			
Mirex 0.000792 0.000962 Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257			
Nickel 308 375 Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257	· · · · · · · · · · · · · · · · · · ·		
Nonylphenol 5.22 6.34 Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257			
Parathion (ethyl) 0.0103 0.0125 Pentachlorophenol 8.50 10.3 Phenanthrene 17.6 21.4 Polychlorinated Biphenyls (PCBs) 0.0110 0.0134 Selenium 3.96 4.81 Silver 17.2 20.9 Toxaphene 0.000158 0.000192 Tributyltin (TBT) 0.0190 0.0230 2,4,5 Trichlorophenol 50.7 61.5 Zinc 797 968 Human Health 70% of Daily Avg. 85% of Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257			
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Human Health Daily Avg. Daily Avg. Parameter (μg/L) (μg/L) Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257	Zinc		
Acrylonitrile 2123 2579 Aldrin 0.000211 0.000257	Human Health	=	-
Aldrin 0.000211 0.000257	Parameter	(μg/L)	(μg/L)
	Acrylonitrile	2123	2579
Anthracene 24323 29536	Aldrin	0.000211	0.000257
	Anthracene	24323	29536
Antimony 19780 24019	Antimony	19780	24019
Arsenic N/A N/A	Arsenic	N/A	N/A

Barium	N/A	N/A
Benzene	10730	13029
Benzidine	1.97	2.39
Benzo(a)anthracene	0.461	0.560
Benzo(a)pyrene	0.0461	0.0560
Bis(chloromethyl)ether	5.06	6.15
Bis(2-chloroethyl)ether	791	960
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)	791	900
phthalate]	139	169
Bromodichloromethane [Dichlorobromomethane]	5079	6167
Bromoform [Tribromomethane]	19577	23772
Cadmium	N/A	N/A
Carbon Tetrachloride	849	1031
Chlordane	0.0461	0.0560
Chlorobenzene	50549	61382
Chlorodibromomethane [Dibromochloromethane]	3379	4104
Chloroform [Trichloromethane]	142156	172618
Chromium (hexavalent)	9271	11258
Chrysene	46.5	56.5
Cresols [Methylphenols]	171781	208591
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0369	0.0448
4,4'-DDE	0.00240	0.00291
4,4'-DDT	0.00738	0.00897
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	8735	10607
1,2-Dibromoethane [Ethylene Dibromide]	78.3	95.0
m-Dichlorobenzene [1,3-Dichlorobenzene]	10989	13343
o-Dichlorobenzene [1,2-Dichlorobenzene]	60929	73985
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	41.3	50.2
1,2-Dichloroethane	6722	8163
1,1-Dichloroethylene [1,1-Dichloroethene]	1017906	1236029
Dichloromethane [Methylene Chloride]	246248	299016
1,2-Dichloropropane	4783	5808
1,3-Dichloropropene [1,3-Dichloropropylene]	2197	2668
Dicofol [Kelthane]	5.54	6.72
Dieldrin	0.000369	0.000448
2,4-Dimethylphenol	155805	189192
Di-n-Butyl Phthalate	1706	2072
Dioxins/Furans [TCDD Equivalents]	0.0000015	0.0000018
Endrin	0.369	0.448
Epichlorohydrin	37178	45145
Ethylbenzene	34481	41870
Ethylene Glycol	310281013	376769801
Fluoride	N/A	N/A
	0.00184	0.00224
Heptachlor Heptachlor Epoxide	0.00184	0.00224
Hexachlorobenzene		
	0.0125	0.0152
Hexachlorobutadiene Hoxachlorocycloboxana (g/phg)	4.06	4.93
Hexachlorocyclohexane (alpha)	0.155	0.188
Hexachlorocyclohexane (beta)	4.80	5.83
Hexachlorocyclohexane (gamma) [Lindane]	6.29	7.64
Hexachlorocyclopentadiene	214	260

Hexachloroethane	43.0	52.2
Hexachlorophene	53.5	65.0
4,4'-Isopropylidenediphenol [Bisphenol A]	295173	358424
Lead	345	419
Mercury	0.225	0.273
Methoxychlor	55.4	67.2
Methyl Ethyl Ketone	18321355	22247359
Methyl tert-butyl ether [MTBE]	193593	235077
Nickel	41656	50583
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	34592	42005
N-Nitrosodiethylamine	38.7	47.0
N-Nitroso-di- <i>n</i> -Butylamine	77.5	94.1
Pentachlorobenzene	6.55	7.96
Pentachlorophenol	5.35	6.50
Polychlorinated Biphenyls [PCBs]	0.0118	0.0143
Pyridine	17490	21238
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	4.43	5.38
1,1,2,2-Tetrachloroethane	486	590
Tetrachloroethylene [Tetrachloroethylene]	5171	6279
Thallium	4.24	5.15
Toluene	N/A	N/A
Toxaphene	0.203	0.246
2,4,5-TP [Silvex]	6815	8275
1,1,1-Trichloroethane	14486318	17590529
1,1,2-Trichloroethane	3065	3722
Trichloroethylene [Trichloroethene]	1327	1612
2,4,5-Trichlorophenol	34481	41870
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	304	370

Appendix C TDS, Chloride, and Sulfate Screening Calculations

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate Menu 7 - Discharge to an Intermittent Stream with Perennial Pools

Screen the Perennial Pool Characteristics of the Stream

Applicant Name:

Permit Number, Outfall:

Segment Number:

IACX Rock Creek, LLC

05355-000, 001

0101

Enter values needed for screening:				Data Source (edit if different)
QE - Average effluent flow		0.0695	MGD	Permit application
				Critical conditions
QS - Stream harmonic mean flow		0.10	cfs	memo
QE - Average effluent flow		0.1075	cfs	Calculated
CA TDS ambient assured assured to the contraction		2640		2010 ID. Amazandia D
CA - TDS - ambient segment concentration	-	2640	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	_	830	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration		376	mg/L	2010 IP, Appendix D
				2010 TSWQS,
CC - TDS - segment criterion		5000	mg/L	Appendix A
-				2010 TSWQS,
CC - chloride - segment criterion		1975	mg/L	Appendix A
	Ī			2010 TSWQS,
CC - sulfate - segment criterion		760	mg/L	Appendix A
CE - TDS - average effluent concentration		536.5	mg/L	Permit application
CE - chloride - average effluent concentration		122.1	mg/L	Permit application
CE - sulfate - average effluent concentration		272	mg/L	Permit application

Screening Equation

 $CC \ge [(QS)(CA) + (QE)(CE)]/[QE + QS]$

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC	(QE+QS) -	7194.69		
Calculate the LTA	LTA = WLA	A * 0.93		6691.06	
Calculate the daily average	Daily Avg.	= LTA * 1.	9835.85		
Calculate the daily maximum	Daily Max	. = LTA * 3	20809.19		
Calculate 70% of the daily average	70% of Da	ily Avg. =	6885.10		
Calculate 85% of the daily average	85% of Daily Avg. =			8360.48	
No permit limitations needed if:	536.5	≤	6885.10		
Reporting needed if:	536.5	>	6885.10	but ≤	8360.48
Permit limits may be needed if:	536.5	>	8360.48		

No permit limitations needed for TDS

Chloride

Chloride					
Calculate the WLA	WLA= [CC	(QE+QS) -	3039.79		
Calculate the LTA	LTA = WLA	2827.01			
Calculate the daily average	Daily Avg.	= LTA * 1.	4155.70		
Calculate the daily maximum	Daily Max	. = LTA * 3	8792.00		
Calculate 70% of the daily average	70% of Da	ily Avg. =	2908.99		
Calculate 85% of the daily average	85% of Da	ily Avg. =	3532.35		
No permit limitations needed if:	122.1	≤	2908.99		
Reporting needed if:	122.1	>	2908.99	but ≤	3532.35
Permit limits may be needed if:	122.1	>	3532.35		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC	1117.10			
Calculate the LTA	LTA = WLA	A * 0.93	1038.90		
Calculate the daily average	Daily Avg.	= LTA * 1.4	1527.19		
Calculate the daily maximum	Daily Max	. = LTA * 3.	3230.99		
Calculate 70% of the daily average	70% of Da	ily Avg. =	1069.03		
Calculate 85% of the daily average	85% of Da	ily Avg. =	1298.11		
No permit limitations needed if:	272	≤	1069.03		
Reporting needed if:	272	>	1069.03	but ≤	1298.11
Permit limits may be needed if:	272	>	1298.11		

No permit limitations needed for sulfate

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.

	Pollutant	Technology-Based			Water Quality-Based				Existing Permit				
Outfall		Daily Avg		Daily Max		Daily Avg		Daily Max		Daily Avg		Daily Max	
		lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L
001	Dry-weather flow	Report	, MGD	Report	t, MGD		-		_	-	•	-	
	Wet-weather flow	0.0695	, MGD	Report, MGD		-	-	-	-	-		-	
	TDS	-	-	-	ı	-	-	1	-	Report 1	Report 1	Report	Report
	BOD ₅ ²	11.59	20	17.39	30	-	-	-	-	7.51	20	11.26	30
	Total Residual Chlorine	1	-	-	0.019	-	-	1	-	N/A	N/A	N/A	0.019
	Aluminum	ı	-	1	ı	-	1	ı	Report	ı	-	-	-
	pH	-	-	-	-	6.0 SU (r	minimum)	9.0 SU (n	naximum)	6.5 SU (minimum) 9.0 SU (n		aximum)	

¹ The daily average reporting condition has been removed from the existing NPDES/RRC permits as the monitoring frequency established is only once per six months.

² The existing BOD₅ mass limits are more stringent than the calculated technology-based effluent limitations proposed. However, the applicant requested to increase the BOD₅ mass limits based upon the updated flow which is supported in the draft permit.