Administrative Package Cover Page

This file contains the following documents:

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

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Freeport LNG Development, L.P., (CN601720345) operates Freeport LNG Liquefaction Plant (RN103196689), a facility that liquefies pre-treated natural gas and stores the LNG in tanks until it is exported via marine transit. The facility is located at 1500 Lamar Street, in Quintana, Brazoria County, Texas 77541. Freeport LNG is requesting an Industrial Wastewater Permit Major Amendment (without renewal) to propose adding the following non-stormwater discharges: firewater, safety showers, and eyewash stations to outfalls 002, 003, and 004. Freeport LNG is authorized to discharge treated wastewater via Outfall 001 at a volume not to exceed a daily average flow of 757,500 gallons per day and the discharge of treated wastewater and stormwater at an intermittent and-flow-variable rate via Outfalls 002, 003, 004, 005, 006, 007, 008, and 009.

Discharges from the facility are expected to contain condensate generated from the air vaporization tower, and washwater from a washrack used to clean light duty vehicles. Non-stormwater wastestream generation sources include condensate from the boil-off gas compressor and multiple liquefaction compressors, discharges from eyewash stations and emergency showers. Stormwater and wastewater will be treated by hydrodynamic separators (oils, grease, and sediment separators) which treats the stormwater collected from the process area section (North) of the Outfall 004 drainage area. A hydrodynamic separator treats the stormwater, compressor condensate, and firewater system test water discharged from Outfall 005. A hydrodynamic separator treats the stormwater and washwater from a vehicle washrack discharged from Outfall 006. A hydrodynamic separator treats the stormwater, compressor condensate, firewater system test water, and eyewash and safety shower water discharged from Outfall 007. Individual hydrodynamic separators treat the stormwater, compressor condensate, and firewater system test water discharged from Outfalls 008 and 009.

Freeport LNG Development, L.P., (CN601720345) opera Freeport LNG la planta de licuefacción (RN103196689). La instalación que licuefacción gas natural pretratado y lo almacena los LNG en tanques hasta que son exportados vía marítima. La instalación esta ubicada en 1500 Lamar Street, en Quintana, en el Condado de Brazoria en Texas 77541. Freeport LNG ha solicitado una Enmienda Mayor al Permiso de Aguas Residuales Industriales (sin renovación) que propone agregar lo siguiente descargas de agua no pluviales: agua contra incendios, duchas de seguridad y estaciones de lavado de ojos para las vías de desagüe 002,003 y 004. Freeport LNG ha autorizado la descarga de agua de desagüe tratada por la vía de desagüe 001 a un volumen que no exceda el promedio de flujo al día de 757,500 galones por día y que la descarga de agua tratada de residuales y pluviales a un ritmo intermitente y de flujo variable a través del desagüe 002,003,004,005,006,007,008 y 009. Las descargas de la instalación contienen el condensado generado por la torre de vaporización de aire y agua de lavado de una rejilla de lavado utilizada para limpiar vehículos. Las fuentes de generación de aguas residuales no pluviales incluyen el condensado del compresor de gas de ebullición y múltiples compresores de licuefacción, descargas de estaciones de lavado de ojos y duchas de emergencia. Aguas pluviales y residuales serán tratadas por separadores hidrodinámicos (separadores de aceites. Grasas y sedimentos) que trata el agua pluvial recolectada del tramo del área de proceso (Norte) hacia el área de drenaje desagüe 004. Un separador de hidrodinámico que trata las aguas pluviales y el agua de lavado de vehículos con descarga en el desagüe 006. Un separador hidrodinámico que trata el agua pluvial, el condensador del compresor y el agua del sistema de extinción de incendios con descarga en el desagüe 008 y 009.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0005364000

APPLICATION. Freeport LNG Development, L.P., 333 Clay Street, Suite 5050, Houston, Texas 77002, which owns a liquid natural gas terminal and liquefaction facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005364000 (EPA I.D. No. TX0127566) to authorize addition of the following non-stormwater discharges: firewater, safety showers, and eyewash stations to Outfalls 002, 003, and 004. The facility is located at 1500 Lamar Street, near the city of Quintana, in Brazoria County, Texas 77541. The discharge route is from the plant site via Outfalls 001, 003, and 004 to created wetlands, thence to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; via Outfalls 002, 005, 007, 008, and 009 to the Gulf Intracoastal Waterway; and via Outfall 006 to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; thence all to the Gulf of Mexico. TCEQ received this application on June 21, 2024. The permit application will be available for viewing and copying at Freeport Branch Library, 410 North Brazosport Boulevard, Freeport, in Brazoria 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=-95.316666,28.928333&level=18

The application is subject to the goals and policies of the Texas Coastal Management Program and must be consistent with the applicable Coastal Management Program goals and policies.

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

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-**

wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

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

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

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

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

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

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific appliure publication to receive futc 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 Freeport LNG Development, L.P. at the address stated above or by calling Mr. Michael Stephenson, Regulatory Compliance Manager, at 979-415-8700.

Issuance Date: July 24, 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. WQ0005364000

SOLICITUD. Freeport LNG Development, L.P., 333 Clay Street, Suite 5050, Houston, Texas 77002, la cual es dueño de instalación de licuefacción y una terminal de gas natural ha aplicado a la Calidad Ambiental de Texas (TCEQ) por sus siglas en inglés para enmendar el permiso del Sistema de Eliminación de Descargas Contaminantes en Texas (TPDES) con numero WQ0005364000 (EPA I.D. No. TX0127566) para autorizar la adición de las siguientes descargas de aguas no pluviales: agua contra incendios, duchas de seguridad y estaciones de lavado de ojos para las vías de desagüe 002, 003, y 004. La instalación se encuentra ubicada en 1500 Lamar Street, cerca de la ciudad de Quintana, en el condado de Brazoria, en Texas 77541. La ruta de descarga es desde la planta del sitio con desagüe 001, 003 y 004 hasta los humedales creados, de allí hasta West Velasco Ditch y de allí hasta el Gulf Intracoastal Waterway; vía de desagüe 002, 005, 007, 008 y 009 hacia el Canal Golfo Intracostero y vía de desagüe 006 hacia la zanja de este del Velasco hacia el Golfo Instracostero, de allí hacia el Golfo de México. La Comisión de Calidad Ambiental del Estado de Texas (TCEQ) ha recibido la aplicación el día 21 de junio del 2024. La aplicación para el permiso está disponible para ser visto y copiado en Freeport Branch Library, 410 North Brazosport Boulevard, Freeport, en el condado de Brazoria, Texas antes de esta notificación será publicado en el periódico. La aplicación incluye todos las actualizaciones y los avisos asociados se encuentran disponible electrónicamente en el https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.
El enlace hacia el mapa electrónico del sitio o de la ubicación general de la instalación se proporciona como una cortesía publica y no es parte de la aplicación o del anuncio. Para la ubicación exacta, favor de referirse a la aplicación https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.316666,28.928333&level=18

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

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

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

También se puede obtener información adicional del Freeport LNG Development, L.P. a la dirección indicada arriba o llamando a Sr. Michael Stephenson at 979-415-8700.

Fecha de emisión el 24 de julio de 2024

June 12, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
P.O. Box 13087
Austin, Texas 78711-3087

Dear Review Team:

Subject: Industrial Wastewater Permit Renewal
Freeport LNG Liquefaction Plant
Permit No. WQ0005364000
Brazoria County, Texas
CEC Project No.: 317-278

Civil and Environmental Consultants, Inc. (CEC) has been authorized by Freeport LNG Development, LP (FLNG) to prepare and submit this document to the Texas Commission on Environmental Quality (TCEQ). The purpose of this submittal is to request an Industrial Wastewater Permit major amendment for the Freeport LNG Liquefaction Plant facility as authorized by Permit No. WQ0005364000, located in Brazoria County, Texas. This application proposes to add the following non-stormwater discharges: firewater, safety showers, and eyewash stations to Outfalls 002, 003, and 004. This document provides the following information:

- TCEQ Form 10400 – Core Data Form, included in Appendix A;
- Adjacent property owners' map and list, included in Appendix A;
- TCEQ Form 10411 – Industrial Wastewater Permit Application and Public Involvement Plan (Form 20960), included in Appendix B;
- TCEQ Form 10055 and Worksheets 2.0, 4.0, and 7.0, included in Appendix C;
- Stormwater analysis results for Outfalls 002, 003, and 004, included in Appendix D;
- A copy of the TCEQ ePay receipt for the $350 payment made on May 1, 2024 to cover the cost of the major amendment with renewal, included in Appendix E;
- Location Maps, included in Appendix F, showing:
    - Applicant's property boundary;
    - Treatment facility locations;
    - Labeled point of discharge and highlighted discharge route, and
    - 1-mile radius and 1/2 mile tidal influence information.

- Outfall Location Figures, included as Appendix F;
- Floodplain Information, included in Appendix G;
- Original ground level photographs of Outfalls 002, 003, and 004 included in Appendix H; and,
- Water Flow Schematics Drawing of Outfalls 002-004.

Corrections to the outfall IDs were made to Section 10 of TPDES Permit No. WQ0005364000 (Schedule of Compliance for Water Quality Effluent Limits). A redline of this section is attached.

We appreciate your consideration of this request. If you have any questions concerning this submittal, please feel free to contact Corey P. Perkin at (512) 439-0400 or cperkin@cecinc.com.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Corey P. Perkin
Assistant Project Manager

Adam W. Mehevec, PE
Vice President

Enclosures:
Attachment 1: TPDES Major Amendment Permit Application
Attachment 2: Redline of Section 10 of TPDES Permit

cc: Scott Brooks – FLNG
Annie Winkelmann - FLNG

Attachment 1

Major Amendment Permit Application

FREEPORT LNG DEVELOPMENT, LP

FREEPORT LNG LIQUEFACTION PLANT
1500 Lamar Street
Quintana, Texas 77541

Wastewater Permit No. WQ 0005364000

Major Amendment Application

June 12, 2024

Prepared By:

Civil & Environmental Consultants Inc.
Texas Registered Engineering Firm F-38

Appendix A

Core Data Form

TCEQ Form 10400

&

Adjacent Landowner's Map, List and Mailing Labels

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601720345		RN 103196689

SECTION II: Customer Information

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

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800125153	12700304111		

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

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

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	333 Clay Street						
	Suite 5050						
	City	Houston	**State**	TX	**ZIP**	77002	**ZIP + 4**

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

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

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

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

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

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

Freeport LNG Liquefaction Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	1500 Lamar Street							
	City	Quintana	**State**	TX	**ZIP**	77541	**ZIP + 4**	8113
24. County								

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	55	42	95	19	00

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4922		221210	

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

Facility liquifies pre-treated natural gas and stores the LNG in tanks until it is exported via marine transit.

34. Mailing Address:	**1500 Lamar St**							
	City	**Quintana**	**State**	**TX**	**ZIP**	**77541**	**ZIP + 4**	**8113**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax 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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☒ Emissions Inventory Air	☐ Industrial Hazardous Waste
			BLA014N	
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
	N304, 100114, 55464, AMOC70, 169799			
☐ Sludge	☐ Storm Water	☒ Title V Air	☐ Tires	☐ Used Oil
		2878		
☐ Voluntary Cleanup	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0005364000			

SECTION IV: Preparer Information

40. Name:	Corey P. Perkin	**41. Title:**	Assistant Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 439-0400		( ) -	cperkin@cecinc.com

SECTION V: Authorized Signature

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

Company:	Freeport LNG Development, LP	**Job Title:**	Director, Regulatory Compliance
Name *(In Print):*	Michael Stephenson	**Phone:**	(979) 415- **8728**

Signature:		Date:	6-17-24

NORTH



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- 1/2 MILE OFFSET FROM OUTFALLS
- [3] PARCEL OWNERSHIP INDEX NUMBER
- PARCEL OWNED BY BRAZOS RIVER HARBOR NAVIGATION DISTRICT OF BRAZORIA COUNTY
- PARCEL OWNERSHIP DATA UNAVAILABLE

NOTE

SEE LANDOWNERS LIST FOR INDIVIDUAL PARCEL INFORMATION.

REFERENCE

AERIAL IMAGERY
PROVIDER: GOOGLE EARTH; PHOTOGRAPHY DATE: JANUARY 16, 2022
PARCELS DATASET:
"STRATMAP21-LANDPARCELS_48039_LP";RETRIEVED FROM TEXAS NATURAL RESOURCES INFORMATION SYSTEM ONLINE DATA PORTAL ON SEPTEMBER 27, 2021.

SCALE IN FEET
0 500 1000

REVISION RECORD

NO	DATE	DESCRIPTION

CEC
Texas Registered Engineering Firm F-38
Civil & Environmental Consultants, Inc.
3711 South MoPac Expressway · Building 1, Suite 550 · Austin, TX 78746
Ph: 512.439.0400 · Fax: 512.329.0096
www.cecinc.com

FREEPORT LNG DEVELOPMENT, L.P.
FREEPORT LNG TERMINAL
AND LIQUEFACTION FACILITY
1500 LAMAR STREET
CITY OF FREEPORT, BRAZORIA COUNTY, TX.

ADJACENT LANDOWNERS MAP

DATE:	DEC 2022	DRAWN BY: JSC
DWG SCALE:	1" = 500'	CHECKED BY: DMR
PROJECT NO:	317278	APPROVED BY: DMR

DRAWING NO.:

SHEET NO OF NO

P:\310-000\317-278\-CAD\Dwg\DN01-Adjacent Landowners\317278-DN01-AdjacentLandowners_R1.dwg[LAYOUT1 (2)] LS:(1/13/2024 - [porter]) - LP: 3/13/2024 10:34 AM

LANDOWNERS LIST

The following table lists the names and mailing addresses of the adjacent and potentially affected landowners around the facility boundary. The list is based on the Brazoria County Appraisal District records (as of May 2024).

Number	Name	Address
1	FLIQ COMMON FACILITIES LLC	333 CLAY ST STE 5050 HOUSTON, TX 77002-4101
2	DOW CHEMICAL COMPANY	332 SH 332 E LAKE JACKSON, TX 77566
3	GUNNELS LARRY L	100 LIDO CIRCLE UNIT DE LAKEWAY, TX 78734-5190
4	BRYAN J P EST	PO BOX 136 ANGLETON, TX 77516-0136
5	PHILLIPS 66 COMPANY	PO BOX 421959 HOUSTON, TX 77242-1959
6	LEWIS THOMAS EDWARD	LEWIS JAMES E TRUSTEE *(NO ADDRESS AVAILABLE)*
7	FLNG LAND II INC	333 CLAY ST STE 5050 HOUSTON, TX 77002-4101
8	TOWN OF QUINTANA	814 LAMAR ST FREEPORT, TX 77541-9109
9	CITY OF QUINTANA	2603 FM 1495 RD FREEPORT, TX 77541-9114
10	CRADLE OF TX CONSERVANCY	PO BOX 353 WEST COLUMBIA, TX 77486-0353
11	GONZALES PAUL D TRUST	145 LOST BRIDGE DR PALM BEACH GARDENS, FL 33410-4470
12	GILBERT ERICA	115 S RINGGOLD ST WEST COLUMBIA, TX 77486-3405
13	BYERS TEMPLE STREET MOORE	2708 CENTER RD NACOGDOCHES, TX 75961-5404
14	MASTERS JERRIDAN	807 W 9TH ST FREEPORT, TX 77541-5443

FLIQ COMMON FACILITIES LLC
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

GONZALES PAUL D TRUST
145 LOST BRIDGE DR
PALM BEACH GARDENS FL 33410-4470

DOW CHEMICAL COMPANY
332 SH 332 E
LAKE JACKSON TX 77566

GILBERT ERICA
115 S RINGGOLD ST
WEST COLUMBIA TX 77486-3405

GUNNELS LARRY L
100 LIDO CIRCLE UNIT DE
LAKEWAY TX 78734-5190

BYERS TEMPLE STREET MOORE
2708 CENTER RD
NACOGDOCHES TX 75961-5404

BRYAN J P EST
PO BOX 136
ANGLETON TX 77516-0136

MASTERS JERRIDAN
807 W 9TH ST
FREEPORT TX 77541-5443

PHILLIPS 66 COMPANY
PO BOX 421959
HOUSTON TX 77242-1959

LEWIS THOMAS EDWARD LEWIS
(NO ADDRESS AVAILABLE)

FLNG LAND II INC
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

TOWN OF QUINTANA
814 LAMAR ST
FREEPORT TX 77541-9109

CITY OF QUINTANA
2603 FM 1495 RD
FREEPORT TX 77541-9114

CRADLE OF TX CONSERVANCY
PO BOX 353
WEST COLUMBIA TX 77486-0353

Appendix B

Administrative Report

TCEQ Form 10411

&

Public Involvement Plan

TCEQ Form 20960

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Freeport LNG Development, L.P

PERMIT NUMBER (If new, leave blank): WQ00 5364000

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

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

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

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

Applicant Name: Freeport LNG Development, L.P.

Permit No.: WQ0005364000

EPA ID No.: TX0127566

Expiration Date: 3/8/2024

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 appropriate facility status.

☒ Active ☐ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☐ New

☐ Renewal with changes ☐ Renewal without changes

☐ Major amendment with renewal ☒ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Administrative changes associated with NPDES to TPDES; WET testing sampling requirements.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

g. Application Fee

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

h. Payment Information

Mailed

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

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

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

Epay

Voucher number: 703663

Copy of voucher attachment: E

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN601720345

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

b. Legal name of the entity (applicant) applying for this permit: Freeport LNG Development, L.P.

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

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

Prefix: Mr. Full Name (Last/First Name): Michael Moppert

Title: Senior Vice President and Chief Operating Officer Credential: Click to enter text.

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

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

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

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

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Winkelmann/Annie

Title: Regulatory Compliance Analyst Credential: Click to enter text.

Organization Name: Freeport LNG Development L.P.

Mailing Address: 1500 Lamar St City/State/Zip: Quintana, TX 77541

Phone No: 979-415-8756 Email: awinkelmann@freeportlng.com

b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Perkin/Corey

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

Organization Name: Civil & Environmental Consultants, Inc.

Mailing Address: 1221 S. MoPac Expressway, Suite 350 City/State/Zip: Austin/TX/78746

Phone No: 512-439-0400 Email: cperkin@cecinc.com

Attachment: Click to enter text.

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

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

a. Prefix: Mr. Full Name (Last/First Name): Ryan Davis

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

Organization Name: Freeport LNG Development, L.P.

Mailing Address: 1500 Lamar Street City/State/Zip: Quintana/Texas/77541

Phone No: 713-577-0359 Email: rdavis@freeportlng.com

b. Prefix: Mr. Full Name (Last/First Name): Michael Moppert

Title: Senior Vice President and Chief Operating Officer Credential: Click to enter text.

Organization Name: Freeport LNG Development, L.P.

Mailing Address: 1500 Lamar Street City/State/Zip: Quintana/Texas/77541

Phone No: 979-415-8744 Email: mmoppert@freeportlng.com

Attachment: Click to enter text.

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

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

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

Prefix: Mr. Full Name (Last/First Name): Stephenson/Michael

Title: Regulatory Compliance, Manager Credential: Click to enter text.

Organization Name: Freeport LNG Development, L.P.

Mailing Address: 1500 Lamar Street City/State/Zip: Quintana/TX/77541

Phone No: 979-415-8700 Email: mstephenson@freeportlng.com

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

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

Prefix: Mr. Full Name (Last/First Name): Brooks/Scott

Title: Regulatory Compliance Superintendent Credential: Click to enter text.

Organization Name: Freeport LNG Development, L. P.

Mailing Address: 1500 Lamar Street City/State/Zip: Quintana/TX/77541

Phone No: 979-415-8713 Email: sbrooks@freeportlng.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms Full Name (Last/First Name): Winkelmann/

Title: Regulatory Compliance Analyst Credential: Click to enter text.

Organization Name: Freeport LNG Development, L. P.

Mailing Address: 1500 Lamar Street City/State/Zip: Quintana/TX/77541

Phone No: 979-415-8746 Email: awinkelmann@freeport;mg.com

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

☒ E-mail: awinkelmann@freeportlng.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Stephenson/Michael

Title: Regulatory Compliance Manager Credential: Click to enter text.

Organization Name: Freeport LNG Development, L.P.

Phone No: 979-415-8700 Email: mstephenson@freeportlng.com

d. Public Viewing Location Information

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

Public building name: Freeport Branch Library Location within the building: Click to enter text.

Physical Address of Building: 410 Brazosport Boulevard

City: Freeport County: Brazoria

e. Bilingual Notice Requirements

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

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

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

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

☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No ☐ N/A

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

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

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

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN103196689

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): Freeport Liquefaction Plant

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

☒ Yes ☐ No ☐ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: Freeport LNG Development, L.P.

Mailing Address: 333 Clay Street, Ste. 5050 City/State/Zip: Houston/TX/77002

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

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

f. Owner of land where treatment facility is or will be: Same as facility

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

or Organization Name: Freeport LNG Development, L.P.

Mailing Address: 333 Clay Street, Ste. 5050 City/State/Zip: Houston/TX 77002

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

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

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

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

or Organization Name: Click to enter text.

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

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

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: N/A

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

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

or Organization Name: Click to enter text.

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

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

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: N/A

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

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

☐ Yes ☒ No

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

☒ One-mile radius	☐ Three-miles downstream information
☒ Applicant's property boundaries	☐ Treatment facility boundaries
☒ Labeled point(s) of discharge	☒ Highlighted discharge route(s)
☐ Effluent disposal site boundaries	☐ All wastewater ponds
☐ Sewage sludge disposal site	☐ New and future construction

Attachment: F

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

☐ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: N/A

f. City nearest the outfall(s): Quintana, Texas

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

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

☐ Yes ☒ No

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

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: N/A

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: N/A

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

☐ Yes No or New Permit ☐ N/A

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

j. City nearest the disposal site: N/A

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

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

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

Item 12. Miscellaneous Information (Instructions, Page 33)

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

☐ Yes ☒ No

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

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0005364000

Applicant Name: Freeport LNG L.P. Development

Certification: I, Michael Moppert, 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): Michael Moppert

Signatory title: Senior Vice President and Chief Operating Officer

Signature: _____ Date: 6/18/24
(Use blue ink)

Subscribed and Sworn to before me by the said Mike Moppert

on this 20th day of June, 2024.

My commission expires on the 23rd day of October, 2024.

Dawn M Gourley
Notary Public

Brazoria
County, Texas

NOTARY PUBLIC STATE OF TEXAS SEAL
DAWN M GOURLEY
Notary ID #124671248
My Commission Expires
October 23, 2024

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☒ The applicant's property boundaries.

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

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

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

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

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

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

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

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

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

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

Attachment: A

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

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: A

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

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

☐ Yes ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: G & H

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ0005364000

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

   Name of Project or Site: Click to enter text.

   Physical Address of Project or Site:

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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

Prefix (Mr., Ms., or Miss): N/A

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION 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

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☐ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

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

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Freeport LNG would like to submit a major amendment to have non-stormwater discharges added to outfalls 002, 003, and 004 to account for fire water, safety showers and eye wash stations.

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.

Freeport

(City)

Brazoria County

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☒ Census Tract

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

79.1% are people over 25 years of age who at least graduated from high school.

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

The per capita income for population near the specified location is $50,704.

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

48.3% is white, 20.1% is Black or African American, 1.4% is American Indian and Alaska Native alone, 0.2% is is Asian, 0.2% is Native Hawaiian, 19.5% is two or more races, 54.0% is Hispanic or Latina, and 24.5% is white alone, not Hispanic or Latino.

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

Language other than English spoken at home, percent of persons age 5+ is 32.7%

(e) Languages commonly spoken in area by percentage

Spanish is the dominant language after English.

(f) Community and/or Stakeholder Groups

Freeport LNG has been honored by Keep Texas Beautiful, a nonprofit organization whose mission is to improve community environments through the Nature and Wildlife Habitat Conservancy.

(g) Historic public interest or involvement

Freeport's historic district runs from the Old Brazos River south to 4th Street, and from FM 1495 west to Velasco. It promotes tourism and holds several events every year to attract out-of-town visitors. The Odl Quintana Cemetery now sits in the

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) Freeport Public Library

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)

Appendix C

Technical Report

TCEQ Form 10055

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 Instructions for Completing the Industrial Wastewater Permit Application[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 Freeport LNG Liquefaction Plant receives pre-treated natural gas via an intrastate pipeline and cools the natural gas into a liquid state to prepare it for loading and transport on LNG tanker ships. (SIC code 4922)

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

Process wastewater generation sources include condensate generated from the air vaporization tower, and washwater from a washrack used to clean light duty vehicles. Non-stormwater wastestream generation sources include condensate from the boil-off gas compressor and multiple liquefaction compressors, discharges from eyewash stations and emergency showers.

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

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

Materials List

Raw Materials	Intermediate Products	Final Products
natural gas	N/A	liquefied natural gas

Attachment: N/A

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

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

Attachment: F

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

☐ Yes ☒ No

If **yes**, provide background discussion: N/A

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: FEMA Firm Panel

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: See Attachment

Attachment: G

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

☐ Yes ☒ No ☐ N/A (renewal only)

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

☐ Yes ☐ No

If **yes**, provide the permit number:

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.

A hydrodynamic separator (oils, grease, and sediment separator) treats the stormwater collected from the process area section (North) of the Outfall 004 drainage area. A hydrodynamic separator treats the stormwater, compressor condensate, and firewater system test water discharged from Outfall 005. A hydrodynamic separator treats the stormwater and washwater from a vehicle washrack discharged from Outfall 006. A hydrodynamic separator treats the stormwater, compressor condensate, firewater system test water, and eyewash and safety shower water discharged from Outfall 007. Individual hydrodynamic separators treat the stormwater, compressor condensate, and firewater system test water discharged from Outfalls 008 and 009. The quantity of discharge through each hydrodynamic separator is rainfall-dependent and the locations of each hydrodynamic separator are noted on the figures included in Attachment F.

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: N/A

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 #**	**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				

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)				

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

Attachment: Click to enter text

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

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

i. Liner data

☐ Yes ☐ No ☐ Not yet designed

ii. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

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: Click to enter text

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

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

Attachment: 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

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	28.932222	95.313056
002	28.934722	95.315556
003	28.931667	95.313333
004	28.929444	95.316111
005	28.933889	95.317778
006	28.929444	95.318333
007	28.930001	95.321944
008	28.929167	95.323611
009	28.928056	95.325833

Outfall Location Description

Outfall Number	Location Description
001	Regasification – Southeast corner of the Terminal along the levee prior to entering the constructed wetlands
002	LNG Process Area – Northeast corner of the warming tower to an underground pipe prior to entering the drainage ditch and the GIWW
003	LNG Tank 1 – South side of LNG Tank 1 containment area prior to entering the constructed wetland
004	LNG Tanks 2/3 – South side of LNG Tank 2 and Tank 3 containment area prior to entering the constructed wetland
005	BOG Compressor – North side of the Unit 18 BOG Compressor Area prior to entering the GIWW
006	Washrack - East side of the LQF process trains along central drainage ditch prior to entering the GIWW
007	Train 1 – The northeast corner of LNG Train 1 (Unit 11) to an underground pipe prior to entering the GIWW
008	Train 2 –Nnorthwest corner of LNG Train 2 (Unit 12) to an underground pipe prior to entering the GIWW
009	Train 3 – northwest corner of LNG Train 3 (Unit 13) to an underground pipe prior to entering the GIWW

Description of Sampling Points (if different from Outfall location)

Outfall Number	Description of Sampling Point
002	Sump prior to pumping into underground trench
006	Sump adjacent to Oil/Water Separator prior to pumping into underground trench
007	Sump adjacent to Oil/Water Separator prior to pumping into underground trench
008	Sump adjacent to Oil/Water Separator prior to pumping into underground trench
009	Sump adjacent to Oil/Water Separator prior to pumping into underground trench

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	0.7575				Inactive
002	0.001400				Ongoing
003	0.001350				Ongoing
004	0.001400				Ongoing
005	0.008370				Ongoing
006	0.001595				Ongoing
007	0.026700				Ongoing
008	0.054550				Ongoing
009	0.053350				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	Recording meter
002	Y	N	estimate
003	N	Y	estimate
004	Y	N	estimate
005	Y	N	estimate
006	Y	N	estimate
007	Y	N	estimate
008	Y	N	estimate
009	Y	N	estimate

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	0	0	0
002	Y	N	N			
003	Y	N	N			
004	Y	N	N			
005	Y	N	N			
006	Y	N	N			
007	Y	N	N			
008	Y	N	N			
009	Y	N	N			

Wastestream Contributions

Outfall No.: 001

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Air Vaporization Tower	0.7575	100%

Outfall No.: 002

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from Process Area	Varies	
Firewater System (Testing)	0.00135	
Eyewash/Safety Shower (Test)	0.00005	

Outfall No.: 003

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from LNG Tank 1 Area	Varies	
Firewater System (Test)	0.00135	

Outfall No.: 004

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from LNG Tanks 2/3 Area	Varies	
Firewater System (Test)	0.00135	
Eyewash/Safety Shower (Testing)	0.00005	

Outfall No.: 005

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from BOG Compressor Area	Varies	
BOG Compressor Condensate	Varies	
Firewater System (Testing)	0.00135	

Outfall No.: 006

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from Vehicle Wash Area	Varies	
Vehicle Washwater	0.00016	
Firewater System (Testing)	0.00135	

Outfall No.: 007

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from Train 1 Area	Varies	
Train 1 Compressor Condensate	Varies	
Firewater System (Testing)	0.00135	
Eyewash/Safety Shower (Testing)	0.00005	

Outfall No.: 008

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from Train 2 Area	Varies	
Train 2 Compressor Condensate	Varies	
Firewater (Emergency Eqpt)	0.00135	

Outfall No.: 009

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Collected Stormwater from Train 3 Area	Varies	
Train 3 Compressor Condensate	Varies	
Firewater System (Test)	0.00135	

Attachment: N/A

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

a. Does the facility use/propose to use any cooling towers which discharge blowdown or other wastestreams to the outfall(s)?

☐ Yes ☒ No

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

b. Does the facility use or plan to use any boilers that discharge blowdown or other wastestreams to the outfall(s)?

☐ Yes ☒ No

c. Does or will the facility discharge once-through cooling water to the outfall(s)?

☐ Yes ☒ No

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

d. If **yes** to Items 5.a, 5.b, **or** 5.c, attach the SDS with the following information for each chemical additive.

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

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: N/A

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			
Boilers			

6. STORMWATER MANAGEMENT (Instructions, Page 44)

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

☒ Yes ☐ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in some manner which may result in exposure of the activities or materials to stormwater: industrial plant yards and storage areas

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 and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

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

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

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

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

☐ Facility is a POTW. **Complete Worksheet 5.0**.

☐ Domestic sewage is not generated on-site.

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Brazoria County Septic Service	22576
Oyster Creek Waste Water Treatment plant	WQ0011837001

8. IMPROVEMENTS OR COMPLIANCE/ENFORCEMENT REQUIREMENTS (Instructions, Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

9. TOXICITY TESTING (Instructions, Page 45)

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

☒ Yes ☐ No

If **yes**, identify the tests and describe their purposes: WET as required by permit

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

Attachment: Click to enter text.

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

11. RADIOACTIVE MATERIALS (Instructions, Pages 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material	Concentration (pCi/L)

12. COOLING WATER (Instructions, Pages 46-47)

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

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

c. Cooling Water Supplier

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.

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

CWIS ID				
Owner				
Operator				

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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: Click to enter text

If **no**, proceed to Item 12.d.

d. 316(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.

☐ 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 § 122.2*.

☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

f. 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.

g. Compliance 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: Click to enter text.

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: Click to enter text.

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.

Freeport LNG would like to have non-stormwater discharges added to outfalls 002, 003, and 004 to account for firewater, safety showers and eyewash stations.

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

☐ Yes ☒ No

If **yes**, list and discuss the requested changes.

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

☐ Yes ☒ No

If **yes**, list and discuss the requested changes.

WORKSHEET 1.0
EPA CATEGORICAL EFFLUENT GUIDELINES

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

1. CATEGORICAL INDUSTRIES (Instructions, Pages 50-52)

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

☐ Yes ☒ No

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

40 CFR Effluent Guidelines

Industry	40 CFR Part

2. PRODUCTION/PROCESS DATA (Instructions, Page 54)

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

a. **Production Data**

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

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

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

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

Percentages of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metal	Appendix A – Cyanide

c. **Refineries (40 CFR Part 419)**

Provide the applicable subcategory and a brief justification.

Click to enter text

3. PROCESS/NON-PROCESS WASTEWATER FLOWS (Instructions, Page 54)

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

Click to enter text

4. NEW SOURCE DETERMINATION (Instructions, Page 54)

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

Wastewater-generating Processes Subject to Effluent Guidelines

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

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, Click to enter text., 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): 09/28/2022 – 11/2/2022

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

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

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.: 006: All others N/A – 001 is inactive, see Worksheet 7.0 for new sampling dates for 002-004

Samples are (check one): ☐ **Composite** ☒ **Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<2.00	< 2.00		
CBOD (5-day)	< 2.00	< 2.00		
Chemical oxygen demand	18	<15		
Total organic carbon	3.92	2.16		
Dissolved oxygen	7.27	8.37		
Ammonia nitrogen	< 0.050	0.067		
Total suspended solids	833	235		
Nitrate nitrogen	1.23	0.954		
Total organic nitrogen	1.1	0.56		
Total phosphorus	0.380	0.273		
Oil and grease	<2.00	2.1		
Total residual chlorine	<0.10	<0.10		
Total dissolved solids	228	146		
Sulfate	13.2	5.45		
Chloride	81.5	45.6		
Fluoride	<0.100	<0.100		
Total alkalinity (mg/L as $CaCO_3$)	67.2	65.0		
Temperature (°F)	-	-		
pH (standard units)	8.19	8.14		

Table 2 for Outfall No.: 006: All others N/A – 001 is inactive, see Worksheet 7.0 for new sampling dates for 002-004

Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	290	136			2.5
Antimony, total	<5	<5			5
Arsenic, total	<2	<2			0.5
Barium, total	40.1	20.1			3
Beryllium, total	<5	<5			0.5
Cadmium, total	<2	<2			1
Chromium, total	<4	<4			3
Chromium, hexavalent	<20	<20			3
Chromium, trivalent	-	-			N/A
Copper, total	9.72	15.0			2
Cyanide, available	<2	<2			2/10
Lead, total	<2	<2			0.5
Mercury, total	0.00885	0.00362			0.005/0.0005
Nickel, total	<2	<2			2
Selenium, total	<2	<2			5
Silver, total	<2	<2			0.5

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Thallium, total	<2	<2			0.5
Zinc, total	82.9	62.7			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.: 006: All others N/A – 001 is inactive, see Worksheet 7.0 for new sampling dates for 002-004

Samples are (check one): ☐ **Composites** ☒ **Grabs**

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene	<5	<5			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	<5	<5			10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(*) Indicate units if different from µg/L.
(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☒ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

Table 4 for Outfall No.: N/A for all Outfalls

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

Table 5 for Outfall No.: Click to enter text.

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: All Outfalls

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☒					400
Color (PCU)	☐	☒					—
Nitrate-Nitrite (as N)	☐	☒					—
Sulfide (as S)	☐	☒					—
Sulfite (as SO_3)	☐	☒					—
Surfactants	☐	☒					—
Boron, total	☐	☒					20
Cobalt, total	☐	☒					0.3
Iron, total	☐	☒					7
Magnesium, total	☐	☒					20
Manganese, total	☐	☒					0.5
Molybdenum, total	☐	☒					1
Tin, total	☐	☒					5
Titanium, total	☐	☒					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: N/A for all outfalls : 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.: N/A for all outfalls : Acid Compounds

Samples are (check one): ☐ Composites ☐ Grabs

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

* Indicate units if different from µg/L.

Table 10 for Outfall No.: N/A for all outfalls : Base/Neutral Compounds

Samples are (check one): ☐ Composites ☐ Grabs

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A for all outfalls : 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: Click to enter text

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text

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

☐ Yes ☒ No

Description: Click to enter text

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

Table 12 for Outfall No.: N/A for all outfalls

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Table 13 for Outfall No.: N/A for all outfalls

Samples are (check one): ☐ **Composites** ☐ **Grabs**

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

WORKSHEET 3.0
LAND APPLICATION OF EFFLUENT

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

1. TYPE OF DISPOSAL SYSTEM (Instructions, Page 70)

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

- ☐ Irrigation
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☐ Drip irrigation system
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Surface application
- ☐ Other, specify: Click to enter text

2. LAND APPLICATION AREA (Instructions, Page 70)

Land Application Area Information

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

3. ANNUAL CROPPING PLAN (Instructions, Page 70)

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

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

Attachment: N/A

4. WELL AND MAP INFORMATION (Instructions, Page 71)

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

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

Attachment: N/A

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

Well and Map Information Table

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

Attachment: N/A

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

☐ Yes ☐ No

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

Attachment: N/A

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

Attachment: N/A

5. SOIL MAP AND SOIL INFORMATION (Instructions, Page 72)

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

a. ☐ USDA NRCS Soil Survey Map depicting the area to be used for land application with the locations identified by fields and crops

b. ☐ Breakdown of acreage and percent of total acreage for each soil type

c. ☐ Copies of laboratory soil analyses

Attachment: N/A

6. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 73)

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 32, for a list of approved signatories.

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

_____

(Signature)

7. EFFLUENT MONITORING DATA (Instructions, Page 73)

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

Table 14 for Site No.: N/A

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Date (mo/yr)	Daily Avg Flow (gpd)	BOD_5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)

Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken.

Attachment: N/A

Use this table to provide effluent analysis for parameters regulated in the current permit which are not listed in Table 14.

Additional Parameter Effluent Analysis

Date (mo/yr)							

Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken.

Attachment: N/A

8. POLLUTANT ANALYSIS (Instructions, Page 73)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.

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

c. Completion of Tables 15 and 16 **is required** for all applications for the authorization of land application.

Table 15 for Site No.: Click to enter text **; Samples are (check one):** ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Fecal Coliform (cfu/100 mL)				
Specific conductance (mmhos/cm)				
pH (standard units; min/max)				
Soluble sodium				
Soluble calcium				
Soluble magnesium				
SAR (unitless)				

Table 16: for Site No.: Click to enter text **; Samples are (check one):** ☐ **Composites** ☐ **Grabs**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Boron, total					20
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

WORKSHEET 3.1
SURFACE LAND APPLICATION AND EVAPORATION

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

1. EDWARDS AQUIFER (Instructions, Page 74)

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

☐ Yes ☐ No

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

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

☐ *30 TAC Chapter 213, Subchapter A*

☐ *30 TAC Chapter 213, Subchapter B*

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

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

Attachment: Click to enter text.

2. SURFACE SPRAY/IRRIGATION (Instructions, Pages 74-75)

a. Provide the following information on the irrigation operations:

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

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

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

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

Design total nitrogen loading rate (lbs nitrogen/acre/year): Click to enter text.

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

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

Irrigation efficiency (percent): Click to enter text.

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

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

Curve number: Click to enter text.

Describe the application method and equipment: Click to enter text.

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance.

Attachment: Click to enter text.

3. EVAPORATION PONDS (Instructions, Page 75)

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

b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions.

Attachment: Click to enter text.

4. EVAPOTRANSPIRATION BEDS (Instructions, Page 75)

a. Provide the following information on the evapotranspiration beds:

Number of beds: Click to enter text.

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

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

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

Storage volume within the beds (include units): Click to enter text.

Description of any lining to protect groundwater: Click to enter text.

b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

5. OVERLAND FLOW (Instructions, Page 75)

a. Provide the following information on the overland flow:

Area used for application (acres): Click to enter text.

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

Design application rate (gpm/foot of slope width): Click to enter text.

Slope length (feet): Click to enter text.

Design BOD_5 loading rate (lbs BOD_5/acre/day): Click to enter text.

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

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

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*.

Attachment: Click to enter text.

WORKSHEET 3.2
SUBSURFACE IRRIGATION SYSTEMS (NON-DRIP)

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

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

1. EDWARDS AQUIFER (Instructions, Page 76)

a. The subsurface system is/will be located on the Edwards Aquifer Recharge Zone, as mapped by the TCEQ?

☐ Yes ☐ No

b. The subsurface system is/will be located on the Edwards Aquifer Transition Zone, as mapped by the TCEQ?

☐ Yes ☐ No

If **yes** to Item 1.a **or** 1.b, the subsurface system may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 to determine if the proposed activity is affected by this rule.

2. SUBSURFACE APPLICATION (Instructions, Page 76)

a. Check the box next to the type of subsurface land disposal system requested by this application:

☐ Conventional drainfield, beds, or trenches
☐ Low pressure dosing
☐ Other: Click to enter text.

b. Provide the following information on the irrigation operations:

Application area (acres): Click to enter text.
Area of drainfield (square feet): Click to enter text.
Application rate (gal/square ft/day): Click to enter text.
Depth to groundwater (feet): Click to enter text.
Area of trench (square feet): Click to enter text.
Dosing duration per area (hours): Click to enter text.
Number of beds: Click to enter text.
Dosing amount per area (inches/day): Click to enter text.
Soil infiltration rate (inches/hour): Click to enter text.
Storage volume (gallons): Click to enter text.
Area of bed(s) (square feet): Click to enter text.
Soil classification: Click to enter text.

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

Attachment: Click to enter text.

WORKSHEET 3.3
SUBSURFACE AREA DRIP DISPERSAL SYSTEMS

This worksheet **is required** for all applications for a permit to dispose of wastewater using a SADDS.

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

1. EDWARDS AQUIFER (Instructions, Page 76)

a. The SADDS is/will be located on the Edwards Aquifer Recharge Zone, as mapped by the TCEQ?

☐ Yes ☐ No

b. The SADDS is/will be located on the Edwards Aquifer Transition Zone, as mapped by the TCEQ?

☐ Yes ☐ No

If **yes** to Item 1.a **or** 1.b, the SADDS may be prohibited by *30 TAC § 213.8*. Contact the Water Quality Assessment Section at (512) 239-4671 to determine if the proposed activity is affected by this rule.

2. ADMINISTRATIVE INFORMATION (Instructions, Page 77)

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

b. The owner of the land where the WWTF is/will be located is the same as the owner of the WWTF.

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the WWTF is/will be located: Click to enter text.

c. Provide the legal name of the owner of the SADDS: Click to enter text.

d. The owner of the SADDS is the same as the owner of the WWTF or the site where the WWTF is/will be located.

☐ Yes ☐ No

If **no**, identify the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.c: Click to enter text.

e. Provide the legal name of the owner of the land where the SADDS is located: Click to enter text.

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

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.e: Click to enter text.

3. SADDS (Instructions, Pages 78-79)

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

☐ Subsurface drip/trickle irrigation
☐ Surface drip irrigation
☐ Other: Click to enter text.

b. Attach a description of the SADDS proposed/used by the facility (see instructions for guidance).

Attachment: Click to enter text.

c. Provide the following information on the SADDS:

Application area (acres): Click to enter text.

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

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

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

Storage volume (gallons): Click to enter text.

Major soil series: Click to enter text.

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

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

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

☐ Yes ☐ No

If **yes**, the facility may propose a hydraulic application rate up to, but not to exceed, 0.1 gal/ft^2/day.

e. The facility is/will be located east of the boundary shown in *30 TAC § 222.83* **or** is the facility proposing any crop other than non-native grasses.

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

g. Provide the following dosing information:

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

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

  Attachment: Click to enter text.

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

  Attachment: Click to enter text.

4. REQUIRED PLANS (Instructions, Pages 79-80)

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

5. FLOOD AND RUN-ON PROTECTION (Instructions, Page 80)

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

☐ Yes ☐ No

Source: Click to enter text.

If **yes**, describe how the site will be protected from inundation: Click to enter text.

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

☐ Yes ☐ No

If **yes**, attach either the FEMA flood map or alternate information used to make this determination.

Attachment: Click to enter text.

6. SURFACE WATERS IN THE STATE (Instructions, Page 80)

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

WORKSHEET 4.0
RECEIVING WATERS

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

1. DOMESTIC DRINKING WATER SUPPLY (Instructions, Page 81)

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: Click to enter text.

v. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

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

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

2. DISCHARGE INTO TIDALLY INFLUENCED WATERS (Instructions, Page 81)

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

a. Width of the receiving water at the outfall: 450 feet

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

3. CLASSIFIED SEGMENT (Instructions, Page 81)

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

☐ Yes ☒ No

If **yes**, stop here. It is not necessary to complete Items 4 and 5 of this worksheet or Worksheet 4.1.

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

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

a. Name of the immediate receiving waters: Created Wetlands, W Velasco Ditch, Gulf Intracoastal Waterway

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

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

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

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

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

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

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

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

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Gulf Intracoastal Waterway

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

☐ Yes ☒ No

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

f. General observations of the water body during normal dry weather conditions: Dry

Date and time of observation: July 2022

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

WORKSHEET 4.1
WATERBODY PHYSICAL CHARACTERISTICS

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

Complete the transects downstream of the existing or proposed discharges.

1. DATA COLLECTION (Instructions, Pages 83-84)

a. Date of study: Click to enter text. Time of study: Click to enter text.

Waterbody name: Click to enter text.

General location: Click to enter text.

b. Type of stream upstream of an existing discharge or downstream of a proposed discharge (check only one):

☐ perennial ☐ intermittent with perennial pools ☐ impoundment

c. No. of defined stream bends:

Well: Click to enter text. Moderately: Click to enter text. Poorly: Click to enter text.

d. No. of riffles: Click to enter text.

e. Evidence of flow fluctuations (check one):

☐ Minor ☐ Moderate ☐ Severe

f. Provide the observed stream uses and where there is evidence of channel obstructions/modifications: Click to enter text.

g. Complete the following table with information regarding the transect measurements.

Stream Transect Data

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

* riffle, run, glide, or pool

** channel bed to water surface

2. SUMMARIZE MEASUREMENTS (Instructions, Page 84)

Provide the following information regarding the transect measurements:

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

Instantaneous stream flow (ft^3/sec): Click to enter text.

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

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

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

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

Total number of stream bends: Click to enter text.

- Number well defined: Click to enter text.
- Number moderately defined: Click to enter text.
- Number poorly defined: Click to enter text.

Total number of riffles: Click to enter text.

WORKSHEET 5.0
SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

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

1. SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN (Instructions, Page 85)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes** to either Item 1.a **or** 1.b, attach a solids management plan.

Attachment: Click to enter text.

2. SEWAGE SLUDGE MANAGEMENT AND DISPOSAL (Instructions, Pages 85-86)

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

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

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

Attachment: Click to enter text.

b. Provide the following information for each disposal site:

Disposal site name: Click to enter text.

TCEQ Permit/Registration Number: Click to enter text.

County where disposal site is located: Click to enter text.

c. Method of sewage sludge transportation: ☐ truck ☐ train ☐ pipe ☐ other: Click to enter text.

TCEQ Hauler Registration Number: Click to enter text.

Sludge is transported as a: ☐ liquid ☐ semi-liquid ☐ semi-solid ☐ solid

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

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

Attachment: Click to enter text

3. AUTHORIZATION FOR SEWAGE SLUDGE DISPOSAL (Instructions, Page 86)

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

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

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

Attachment: Click to enter text

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

WORKSHEET 6.0
INDUSTRIAL WASTE CONTRIBUTION

This worksheet **is required** for all applications for publicly-owned treatment works (POTWs).

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

1. ALL POTWS (Instructions, Page 87)

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

Industrial User Information

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

If **no**, skip Item 2 and answer all questions in Item 3 for each significant industrial user and categorical industrial user.

2. POTWS WITH APPROVED PRETREATMENT PROGRAMS OR THOSE REQUIRED TO DEVELOP A PRETREATMENT PROGRAM (Instructions, Pages 87-88)

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Effluent Parameters Measured Above the MAL

Pollutant	Concentration	MAL	Units	Date

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

3. SIGNIFICANT INDUSTRIAL USER AND CATEGORICAL INDUSTRIAL USER INFORMATION (Instructions, Pages 88-89)

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

a. Mr. or Ms.: Click to enter text. First/Last Name: Click to enter text.

Organization Name: Click to enter text. SIC Code: Click to enter text.

Phone number: Click to enter text. Email address: Click to enter text.

Physical Address: Click to enter text. City/State/ZIP Code: Click to enter text.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

d. Flow rate information

Flow rate information

Effluent Type	Discharge (gallons per day)	Discharge Frequency (continuous, batch, or intermittent)
Process wastewater		
Non-process wastewater		

e. Pretreatment Standards

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

☐ Yes ☐ No

ii. Is the SIU subject to categorical pretreatment standards?

☐ Yes ☐ No

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

SIUs Subject To Categorical Pretreatment Standards

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

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

☐ Yes ☐ No

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

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
002	☐	☒
003	☐	☒
004	☐	☒
005	☐	☒
007	☐	☒
008	☐	☒
009	☐	☒
	☐	☐
	☐	☐
	☐	☐

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: F

4. 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 (include units)	Total Area Drained (include units)
002	3.1 acres	3.1 acres
003	3.5 acres	10.2 acres
004	7.0 acres	22 acres
005	0.6 acres	1.0 acres
007	8.0 acres	13.8 acres
008	8.0 acres	13.8 acres
009	8.0 acres	13.8 acres

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

Wettest month: September

Average rainfall for wettest month (total inches): 7.06

25-year, 24-hour rainfall (inches): 11.4

Source: NOAA

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** Outdoor storage and use of oil-filled operating equipment containing heavy hydrocarbons including hydraulic oil, lube oil, and heat transfer fluid as well as diesel fuel. Liquefied Natural Gas (LNG) is stored and transferred along facility but has boiling points well above ambient and any releases will vaporize and disperse.

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:** Unexpected releases or leaks in outdoor storage and processing areas may result in exposure of heavy hydrocarbons to precipitation or runoff.

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: Outfall 002 drains to a valved sump where visual inspections for oil sheen are conducted prior to discharge. Outfall 003 drains to a valved outlet where visual inspections for oil sheen are conducted prior to discharge. Outfalls 004, 005, 007, 008 and 009 discharge through oily water collection systems designed to collect stormwater contaminated with oil or heavy hydrocarbons.

5. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 92)

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
   vi. 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 32, for a list of approved signatories.

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

Annie P Winkelmann
(Signature)

6. POLLUTANT ANALYSIS (Instructions, Pages 92-93)

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): 03/18/2024 and 3/26/2024

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

c. Complete Table 17 as directed on page 92 of the Instructions.

Table 17 Pollutant Analysis for Outfall No.: 002

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)	6.73 (max)	—	7.54 (min)	—	2	—
Total suspended solids	3.12		5.0		2	—
Chemical oxygen demand	15		19		2	—
Total organic carbon	2.76		6.85		2	—
Oil and grease	2.00		2.40		2	—
Arsenic, total	0.002		0.002		2	0.0005
Barium, total	0.0.140		0.0324		2	0.003
Cadmium, total	0.002		0.002		2	0.001
Chromium, total	0.004		0.004		2	0.003
Chromium, trivalent	0.001		0.01		2	—
Chromium, hexavalent	0.0200		0.02		2	0.003
Copper, total	0.00547		0.00794		2	0.002
Lead, total	0.002		0.002		2	0.0005
Mercury, total	0.00000938		0.00000375		2	0.000005
Nickel, total	0.002		0.002		2	0.002
Selenium, total	0.002		0.002		2	0.005
Silver, total	0.002		0.002		2	0.0005
Zinc, total	0.110		0.162		2	0.005

* Taken during first 30 minutes of storm event
** Flow-weighted composite sample

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

Table 18 Pollutant Analysis for Outfall No.: 002

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
Benzene	< 0.005		< 0.005		2
Ethylbenzene	< 0.005		< 0.005		2
Toluene	< 0.005		< 0.005		2
Xylene	< 0.005		< 0.005		2

* Taken during first 30 minutes of storm event
** Flow-weighted composite sample

Attachment: D

7. STORM EVENT DATA (Instructions, Page 94)

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

Date of storm event: The stormwater is not directly related to individual storm events. Water is collected in sumps and oil water separators and then released or pumped after visual inspection for oil sheen.

Duration of storm event (minutes):

Total rainfall during storm event (inches): Click to enter text

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

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

Total stormwater flow from rain event (gallons): Click to enter text

Provide a description of the method of flow measurement or estimate: Click to enter text

WORKSHEET 8.0
AQUACULTURE

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

1. FACILITY/SITE INFORMATION (Instructions, Pages 95-96)

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

Production Pond Descriptions:

Number of Ponds	Dimensions (include units)	Area of Each Pond (include units)	Number of Ponds × Area of Ponds (include units)

Total surface area of all ponds: Click to enter text.

Raceway Descriptions:

Number of Raceways	Dimensions (include units)

Fabricated Tank Descriptions:

Number of Tanks	Dimensions (include units)

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

2. SPECIES IDENTIFICATION (Instructions, Page 96)

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

Stock Species Information

Species	Source of Stock	Origin of Stock	Disease Status	Authorizations

Attachment: Click to enter text.

3. STOCK MANAGEMENT PLAN (Instructions, Page 96)

Attach a detailed stock management plan.

Attachment: Click to enter text.

4. WATER TREATMENT AND DISCHARGE DESCRIPTION (Instructions, Page 97)

Attach a detailed description of the discharge practices and water treatment process(es).

Attachment: Click to enter text.

5. SOLID WASTE MANAGEMENT (Instructions, Page 97)

Attach a description of the solid waste-disposal practices.

Attachment: Click to enter text.

6. SITE ASSESSMENT REPORT (Instructions, Pages 97-98)

All new and expanding commercial shrimp facilities located/to be located within the coastal zone must attach a detailed site assessment report which identifies sensitive aquatic habitats within the coastal zone.

Attachment: Click to enter text.

WORKSHEET 9.0
CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

SUBMIT TO:	TEXAS COMMISSION ON ENVIRONMENTAL QUALITY	For TCEQ Use Only
TCEQ UIC Permits Team Radioactive Materials Division MC 233 PO Box 13087 Austin, Texas 78711-3087 512/239-6466	CLASS V INJECTION WELL INVENTORY/ AUTHORIZATION FORM	Reg. No. Date Received: Date Authorized:

Reg. No. 5

Class V Well Designation Code: Click to enter text.

SECTION I GENERAL INFORMATION (Instructions, Page 101)

Provide the requested information for Items 1 through 8.

1. TCEQ Program (PST, VCP, IHW, etc.): Click to enter text. Program ID: Click to enter text.
   Contact Name: Click to enter text. Phone Number: Click to enter text.
2. Agent/Consultant: Click to enter text.
   Contact Name: Click to enter text. Phone Number: Click to enter text.
   Address (Street, City, State, and Zip Code): Click to enter text.
3. ☐ Owner ☐ Operator
   Owner/Operator: Click to enter text.
   Contact Name: Click to enter text. Phone Number: Click to enter text.
   Address (Street, City, State, and Zip Code): Click to enter text.
4. Facility Name: Click to enter text.
   Address (Street, City, County, State, and Zip Code) or location description (if no address is available): Click to enter text.
   Contact Name: Click to enter text. Phone Number: Click to enter text.
5. Latitude and Longitude (degrees-minutes-seconds): Click to enter text.
   Method of determination (GPS, TOPO, etc.): Click to enter text.
   Attach topographic quadrangle map as Attachment A.
6. Type of Well Construction (Vertical Injection, Subsurface Fluid Distribution System, Infiltration Gallery, Temporary Injection Points, etc.): Click to enter text.
   Number of Injection Wells: Click to enter text.
7. Detailed Description regarding purpose of Injection System: Click to enter text.
   Attach a Site Map as Attachment B (Include Approved Remediation Plan, if appropriate).
8. Water Well Driller/Installer: Click to enter text. License Number: Click to enter text.
   Address (Street, City, State, and Zip Code): Click to enter text.
   Phone Number: Click to enter text.

SECTION II PROPOSED DOWN HOLE DESIGN

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

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

SECTION III PROPOSED TRENCH SYSTEM, SUBSURFACE FLUID DISTRIBUTION SYSTEM, OR INFILTRATION GALLERY

Attach a diagram signed and sealed by a licensed engineer as Attachment D and provide the information requested in Items 12 through 13.

12. System(s) Dimensions: Click to enter text.
13. System(s) Construction: Click to enter text.

SECTION IV SITE HYDROGEOLOGICAL AND INJECTION ZONE DATA

Provide the information requested in Items 14 through 31.

14. Name of Contaminated Aquifer: Click to enter text.
15. Receiving Formation Name of Injection Zone: Click to enter text.
16. Well/Trench Total Depth: Click to enter text.
17. Surface Elevation: Click to enter text.
18. Depth to Ground Water: Click to enter text.
19. Injection Zone Depth: Click to enter text.
20. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

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

    - Name: Click to enter text.
    - Thickness: Click to enter text.

21. Provide a list of contaminants and the levels (ppm) in contaminated aquifer as Attachment E.
22. Provide the Horizontal and Vertical extent of contamination and injection plume as Attachment F.
23. Provide Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc. as Attachment G.
24. Provide the Injection Fluid Chemistry in PPM at point of injection as Attachment H.
25. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
26. Maximum injection Rate/Volume/Pressure: Click to enter text.
27. Water wells within 1/4-mile radius (attach map as Attachment I): Click to enter text.
28. Injection wells within 1/4-mile radius (attach map as Attachment I): Click to enter text.
29. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment I): Click to enter text.
30. Sampling frequency: Click to enter text.
31. Known hazardous components in injection fluid: Click to enter text.

SECTION V SITE HISTORY

Provide the information requested in Items 32 through 35

32. Type of Facility: Click to enter text.

33. Contamination Dates: Click to enter text.

34. Provide the original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations as attachment J

35. Provide the results of any previous remediation as attachment K.

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

CLASS V INJECTION WELL DESIGNATIONS

5A07 Heat Pump/AC return (IW used for groundwater to heat or cool buildings)

5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)

5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)

5D02 Stormwater Drainage (IW designed for the disposal of rain water)

5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)

5F01 Agricultural Drainage (IW that receive agricultural runoff)

5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)

5S23 Subsidence Control Wells (IW used to control land subsidence caused by groundwater withdrawal)

5W09 Untreated Sewage

5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)

5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)

5W12 WTTP disposal

5W20 Industrial Process Waste-disposal Wells

5W31 Septic System (Well Disposal method)

5W32 Septic System Drainfield Disposal

5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, or fill sections of a mine)

5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)

5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)

5X27 Other Wells

5X28 Motor Vehicle Waste-disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)

5X29 Abandoned Drinking Water Wells (waste disposal)

WORKSHEET 10.0
QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY

This worksheet **is required** for all applications for individual permits for a municipal solid waste facilities or mining facilities located within a Water Quality Protection Area in the John Graves Scenic Riverway.

Review 30 TAC §§ 311.71-311.82 thoroughly prior to completing any portion of this worksheet.

1. EXCLUSIONS (Instructions, Pages 101-102)

a. Is this a municipal solid waste facility?

☐ Yes ☐ No

b. Has this quarry been in operation since January 1, 1994 without cessation of operation for more than 30 consecutive days and under the same ownership?

☐ Yes ☐ No

c. Is this a coal mine?

☐ Yes ☐ No

d. Is this a facility mining clay and/or shale for use in manufacturing of structural clay products?

☐ Yes ☐ No

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

2. LOCATION OF THE QUARRY (Instructions, Page 102)

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

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

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

3. ADDITIONAL REQUIREMENTS (Instructions, Pages 102-104)

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

a. Attach a Restoration Plan: Click to enter text.

b. Amount of Financial Assurance for Restoration: $Click to enter text.

Mechanism: Click to enter text.

c. Attach a Technical Demonstration: Click to enter text.

d. Attach a Reclamation Plan: Click to enter text.

e. Amount of Financial Assurance for Reclamation: $Click to enter text.

Mechanism: Click to enter text.

WORKSHEET 11.0
COOLING WATER SYSTEM INFORMATION

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

1. COOLING WATER SYSTEM DATA (Instructions, Pages 105-106)

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

Cooling Water System Data

Total DIF	
Total AIF	
Intake Flow Uses (%)	
Contact cooling	
Non-contact cooling	
Process uses	
Other	

b. Attach the following information:

i. A narrative description of the design and annual operation of the facility's cooling water system and its relationship to the CWIS(s).

ii. A scaled map depicting the location of each CWIS, impoundment, intake pipe, and canals, pipes, or waterways used to convey cooling water to, or within, the cooling water system. Provide the latitude and longitude for each CWIS and any intake pipe(s) on the map. Indicate the position of the intake pipe within the water column.

iii. A description of water reuse activities, if applicable, reductions in total water withdrawals, if applicable, and the proportion of the source waterbody withdrawn (on a monthly basis).

iv. Design and engineering calculations prepared by a qualified professional and data to support the information provided in above item a.

v. Previous year (a minimum of 12 months) of AIF data.

vi. A narrative description of existing or proposed impingement and entrainment technologies or operation measures and a summary of their performance, including, but not limited to, reductions in impingement mortality and entrainment due to intake location and reductions in total water withdrawals and usage.

Attachment: Click to enter text

2. COOLING WATER INTAKE STRUCTURE(S) DATA (Instructions, Page 106)

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

Cooling Water Intake Structure(s) Data

CWIS ID				
DIF				
AIF				
Intake Flow Uses (%)				
Contact cooling				
Non-contact cooling				
Process uses				
Other				
Latitude				
Longitude				

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

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

ii. Engineering calculations for each CWIS.

Attachment: Click to enter text

3. SOURCE WATER PHYSICAL DATA (Instructions, Pages 106-107)

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

Source Waterbody Data

CWIS ID				
Source waterbody				
Mean annual flow				
Source				

b. Attach the following information regarding the source waterbody.

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

ii. A narrative description of the source waterbody's hydrological and geomorphological features.

iii. Scaled drawings showing the physical configuration of all source water bodies used by the facility, including the source waterbody's hydrological and geomorphological features. **NOTE:** The source waterbody's hydrological and geomorphological features may be included on the map submitted for item 1.b.ii of this worksheet.

iv. A description of the methods used to conduct any physical studies to determine the intake's area of influence within the waterbody and the results of such studies.

Attachment: Click to enter text

4. OPERATIONAL STATUS (Instructions, Page 107)

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

☐ Yes ☐ No

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

i. Describe the operating status of each individual unit, including age, capacity utilization rate (or equivalent) for the previous five years (a minimum of 60 months), and any seasonal changes in operation.

ii. Describe any extended or unusual outages or other factors which significantly affect current data for flow, impingement, entrainment.

iii. Identify any operating unit with a capacity utilization rate of less than 8 percent averaged over a contiguous period of two years (a minimum of 24 months).

iv. Describe any major upgrades completed within the last 15 years, including but not limited to boiler replacement, condenser replacement, turbine replacement, or changes of fuel type.

Attachment: Click to enter text

b. Process Units

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

- Individual production processes and product lines
- The operating status, including age of each line and seasonal operation
- Any extended or unusual outages that significantly affect current data for flow, impingement, entrainment, or other factors
- Any major upgrades completed within the last 15 years and plans or schedules for decommissioning or replacement of process units or production processes and product lines.

Attachment: Click to enter text

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

☐ Yes ☐ No

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

Attachment: Click to enter text

d. Is this an application for a manufacturing facility?

☐ Yes ☐ No

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

Attachment: Click to enter text

WORKSHEET 11.1
IMPINGEMENT MORTALITY

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

CWIS ID: Click to enter text.

1. IMPINGEMENT COMPLIANCE TECHNOLOGY SELECTION (Instructions, Page 108)

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

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

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

2. IMPINGEMENT COMPLIANCE TECHNOLOGY INFORMATION (Instructions, Pages 108-109)

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

a. CCRS [*40 CFR § 125.94(c)(1)*]

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

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

☐ Yes ☐ No

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

1. CWIS ID
2. 12 months of intake flow data for any CWIS used for make-up intake flows to replenish cooling water losses, excluding intakes for losses due to blowdown, drift, or evaporation.
3. A narrative description of any physical or operational measures taken to minimize make-up withdraws.

Attachment: Click to enter text.

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

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

☐ Yes ☐ No

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

1. Average number of COCs prior to blowdown:

Average COCs prior to blowdown

Cooling Tower ID				
COCs				

2. Attach COC monitoring data for each cooling tower from the previous year (a minimum of 12 months)

Attachment: Click to enter text

3. Maximum number of COCs each cooling tower can accomplish based on design of the system.

Calculated COCs prior to blowdown

Cooling Tower ID				
COCs				

4. Describe conditions that may limit the number of COCs prior to blowdown, if any, including but not limited to permit conditions: Click to enter text

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

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

Attachment: Click to enter text

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

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

i. A description of the modified traveling screens and associated equipment.

ii. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods

iii. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: Click to enter text

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

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

i. A description of the system of technologies used or proposed for use by the facility to achieve compliance with the impingement mortality standard.

ii. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods.

iii. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment: Click to enter text

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

Provide the following information and proceed to Worksheet 11.2.

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

Attachment: Click to enter text.

ii. If the rate of impingement caused by the CWIS is extremely low (at an organism or age-one equivalent count), attach supplemental information to Worksheet 11.0, item 1.b.vi. to support this determination.

Attachment: Click to enter text.

f. Low capacity utilization power-generation facilities [*40 CFR § 125.94(c)(12)*]

Attach monthly utilization data from the previous 2 years (a minimum of 24 months) for each operating unit and proceed to Worksheet 11.2.

Attachment: Click to enter text.

WORKSHEET 11.2
SOURCE WATER BIOLOGICAL DATA

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** source waterbody of a CWIS for which a facility has selected an Impingement Mortality Technology Option described at *40 CFR §§ 125.94(c)(1)-(7)*.

Name of source waterbody: Click to enter text

1. SPECIES MANAGEMENT (Instructions, Page 110)

a. The facility has obtained an incidental take permit for its cooling water intake structure(s) from the USFWS or the NMFS.

☐ Yes ☐ No

If yes, attach any information submitted in order to obtain that permit, which may be used to supplement the permit application information requirements of paragraph *40 CFR § 125.95(f)*.

Attachment: Click to enter text

b. Is the facility requesting a waiver from application requirements at *40 CFR § 122.21(r)(4)* in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent?

☐ Yes ☐ No

If **yes**, attach a copy of the most recent managed fisheries report to TPWD, or equivalent.

Attachment: Click to enter text

c. There are no federally listed threatened or endangered species or critical habitat designations within the source water body.

☐ True ☐ False

2. SOURCE WATER BIOLOGICAL DATA (Instructions, Pages 110-111)

New Facilities (Phase I, Track I and II)

- Provide responses to all items in this section and stop.

Existing Facilities (Phase II)

- If the answer to **1.b.** above was **no**, provide responses to all items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **true**, do not complete any items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **false**, attach a response for any item in this section that is not contained within the most recent TPWD, or equivalent and proceed to Worksheet 11.3.

Attachment: Click to enter text

a. A list of the data requested at *40 CFR § 122.21(r)(4)(ii)* through *(vi)* that are not available, and efforts made to identify sources of the data.

b. Provide a list of species (or relevant taxa) in the vicinity of the CWIS and identify the following information regarding each species listed.

- all life stages and their relative abundance,
- identification of all species and life stages that would be most susceptible to impingement and entrainment,
- forage base,
- significance to commercial fisheries,
- significance to recreational fisheries,
- primary period of reproduction,
- larval recruitment, and
- period of peak abundance for relevant taxa.

c. Data representative of the seasonal and daily activities (e.g., feeding and water column migration) of biological organisms in the vicinity of the CWIS(s).

d. Identify all threatened, endangered, and other protected species that might be susceptible to impingement and entrainment at the CWIS(s).

e. Documentation of any public participation or consultation with federal or state agencies undertaken.

The following is required for existing facilities only. Include the following information with the above listed attachment.

f. Identify any protective measures and stabilization activities that have been implemented and provide a description of how these measures and activities affected the baseline water condition in the vicinity of the intake.

g. A list of fragile species, as defined at *40 CFR § 125.92(m)*, at the facility. The applicant need only identify those species not already identified as fragile at *40 CFR § 125.92(m)*.

NOTE: New units at an existing facility are not required to resubmit this information if the cooling water withdrawals for the operation of the new unit are from an existing intake.

WORKSHEET 11.3
ENTRAINMENT

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

CWIS ID: Click to enter text.

1. APPLICABILITY (Instructions, Page 112)

Is the AIF of the CWIS identified above greater than, or equal to, 125 MGD?

☐ Yes ☐ No

- If **no** or the facility has selected **CCRS** [*40 CFR § 125.94(c)(1)*] for the impingement mortality compliance method, complete Item 2 and stop here.
- If **yes** and the facility is **seeking a waiver** from application requirements in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent, complete item 2 and stop.
- If **yes** and the facility is **not seeking a waiver** from application requirements in accordance *with 40 CFR § 125.95*, complete item 2 and provide any required and completed studies listed in item 3. For any required studies in item 3 that are not complete, provide a detailed explanation for the delay and an anticipated schedule for completion and submittal.

2. EXISTING ENTRAINMENT PERFORMANCE STUDIES (Instructions, Page 112)

Attach any previously conducted studies or studies obtained from other facilities addressing technology efficacy, through-facility entrainment survival, and other entrainment studies.

Attachment: Click to enter text.

3. FACILITY ENTRAINMENT PERFORMANCE STUDIES (Instructions, Page 112)

a. Attach an entrainment characterization study, as described at *40 CFR § 122.21(r)(9)*.

Attachment: Click to enter text.

b. Attach a comprehensive feasibility study, as described as *40 CFR § 122.21(r)(10)*.

Attachment: Click to enter text.

c. Attach a benefits valuation study, as described as *40 CFR § 122.21(r)(11)*.

Attachment: Click to enter text.

d. Attach a non-water quality environmental and other impacts study, as described as *40 CFR § 122.21(r)(12)*.

Attachment: Click to enter text.

e. Attach a peer review analysis, as described as *40 CFR § 122.21(r)(13)*.

Attachment: Click to enter text.

WORKSHEET 12.0
OIL AND GAS EXPLORATION, DEVELOPMENT, AND PRODUCTION WASTEWATER DISCHARGES

This worksheet **is required** for all TPDES permit applications that are subject to Effluent Limitation Guidelines in 40 CFR Part 435.

1. OPERATIONAL INFORMATION (Instructions, Page 113)

a. Is the wastewater from an oil and gas exploration, development, or production facility located west of the 98th meridian?

☐ Yes ☐ No

If yes, continue to the next question. If no, skip to Item 2 relating to Production/Process Data.

b. Provide justification for how the wastewater is/will be used for agriculture or wildlife propagation.

Click to enter text.

2. PRODUCTION/PROCESS DATA (Instructions, Page 113)

a. Provide the applicable 40 CFR Part 435 Subpart(s).

Click to enter text.

b. Describe if the permit being sought is for discharges from exploration, development, production, or for a combination of more than one of those activities.

Click to enter text.

c. Provide information on all waste-streams generated and specify which waste-streams you are requesting to be authorized for discharge.

Wastestreams Generated

Wastestream	Requesting authorization to discharge? (Yes/No)	Volume (MGD)	% of Total Flow

Attachment: Click to enter text.

d. Describe how the facility will manage wastestreams for which discharge authorization is not being sought.

Click to enter text.

Attachment: Click to enter text.

e. Provide information on miscellaneous discharges.

Click to enter text.

Attachment: Click to enter text.

f. List of chemicals that are in use, or will be used, downhole. Provide the category, concentration used/to be used, and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Chemicals List

Category	Chemical Name	Concentration (specify units)	Purpose

Attachment: Click to enter text

g. List of chemicals that are in use, or will be used, to treat the wastewater to be discharged under this authorization. Provide the concentration used/to be used and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Wastewater Treatment Chemicals List

Chemical Name	Concentration (specify units)	Purpose

Attachment: Click to enter text

3. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 114)

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 32, for a list of approved signatories.

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

_____

(Signature)

4. POLLUTANT ANALYSIS (Instructions, Page 114)

Tables 1, 2, 6, and 7 located in Worksheet 2.0 are required. In addition, Table 19 below is required and must be completed for each outfall and submitted with this application. The remaining tables in Worksheet 2.0, are required as applicable.

Table 19 for Outfall No.: Click to enter text.

Samples are (check one): ☐ **Composites** ☐ **Grabs**

Pollutant	**Sample 1 (mg/L)***	**Sample 2 (mg/L)***	**Sample 3 (mg/L)***	**Sample 4 (mg/L)***
Calcium				
Potassium				
Sodium				

* Indicate units if different from mg/L.

Appendix D

Stormwater Samples Laboratory Reports

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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April 09, 2024

Quan Vu
Freeport LNG Development L.P.
1500 Lamar Street
Quintana, TX 77541

Work Order: **HS24030930**

Laboratory Results for: **Freeport Permit**

Dear Quan Vu,

ALS Environmental received 12 sample(s) on Mar 18, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Andy C. Neir

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Work Order: HS24030930

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24030930-01	Outfall 002	Water		18-Mar-2024 11:41	18-Mar-2024 16:05	☐
HS24030930-02	Outfall 002 LL Hg Duplicate	Water		18-Mar-2024 11:41	18-Mar-2024 16:05	☐
HS24030930-03	Outfall 002 LL Hg Field Blank	Water		18-Mar-2024 11:41	18-Mar-2024 16:05	☐
HS24030930-04	Outfall 003	Water		18-Mar-2024 11:36	18-Mar-2024 16:05	☐
HS24030930-05	Outfall 003 LL Hg Duplicate	Water		18-Mar-2024 11:36	18-Mar-2024 16:05	☐
HS24030930-06	Outfall 003 LL Hg Field Blank	Water		18-Mar-2024 11:36	18-Mar-2024 16:05	☐
HS24030930-07	Outfall 004	Water		18-Mar-2024 11:31	18-Mar-2024 16:05	☐
HS24030930-08	Outfall 004 LL Hg Duplicate	Water		18-Mar-2024 11:31	18-Mar-2024 16:05	☐
HS24030930-09	Outfall 004 LL Hg Field Blank	Water		18-Mar-2024 11:31	18-Mar-2024 16:05	☐
HS24030930-10	CG-120823-407	Water		18-Mar-2024 00:00	18-Mar-2024 16:05	☑
HS24030930-11	CG-120823-423	Water		18-Mar-2024 00:00	18-Mar-2024 16:05	☑
HS24030930-12	CG-120823-438	Water		18-Mar-2024 00:00	18-Mar-2024 16:05	☑

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport Permit
Work Order: HS24030930

Work Order Comments

- The analyses for Available Cyanide and Mercury were subcontracted to ALS Environmental in Holland, MI. Final report attached.
- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

  The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

  Chlorine and Oxygen dissolved are immediate tests. Samples are flagged with “H” qualifier.

GCMS Volatiles by Method E624

Batch ID: R461675

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Sample ID: Outfall 004 (HS24030930-07)

- Surrogate failed outside control limits high. Sample is ND.

Metals by Method Calculation

Batch ID: R462564

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method E200.8

Batch ID: 209083

Sample ID: Outfall 003 (HS24030930-04MS)

- The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Aluminum.

WetChemistry by Method M2540D

Batch ID: R461661

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM5310B

Batch ID: R461696,R461914

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M3500-Cr B

Batch ID: R461700

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R461842

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport Permit
Work Order: HS24030930

WetChemistry by Method E410.4

Batch ID: R462251

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500CL F

Batch ID: R462614

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R462542

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E120.1

Batch ID: R461946

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500-O G

Batch ID: R461817

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: R461699

Sample ID: HS24030912-01MS

• MS and MSD are for an unrelated sample (Sulfate)

WetChemistry by Method M2540C

Batch ID: R461665

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E1664A

Batch ID: R461608

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: 209388

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport Permit
Work Order: HS24030930

WetChemistry by Method SM4500 NH3-B-F

Batch ID: 209463

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500 NH3 D

Batch ID: 209220,209520,209670

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM5210 B

Batch ID: 209007,209008

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 002
Collection Date: 18-Mar-2024 11:41

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	19-Mar-2024 19:10
Ethylbenzene	ND		5.00	ug/L	1	19-Mar-2024 19:10
Toluene	ND		5.00	ug/L	1	19-Mar-2024 19:10
Xylenes, Total	ND		5.00	ug/L	1	19-Mar-2024 19:10
Surr: 1,2-Dichloroethane-d4	*124*		*70-126*	*%REC*	*1*	*19-Mar-2024 19:10*
Surr: 4-Bromofluorobenzene	*98.2*		*82-124*	*%REC*	*1*	*19-Mar-2024 19:10*
Surr: Dibromofluoromethane	*117*		*77-123*	*%REC*	*1*	*19-Mar-2024 19:10*
Surr: Toluene-d8	*99.0*		*82-127*	*%REC*	*1*	*19-Mar-2024 19:10*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	29-Mar-2024 11:23
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 19-Mar-2024		Analyst: JC
Aluminum	**0.214**		**0.0100**	**mg/L**	1	22-Mar-2024 22:43
Antimony	ND		0.00500	mg/L	1	22-Mar-2024 22:43
Arsenic	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Barium	**0.0140**		**0.00400**	**mg/L**	1	22-Mar-2024 22:43
Beryllium	ND		0.00500	mg/L	1	22-Mar-2024 22:43
Cadmium	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Chromium	ND		0.00400	mg/L	1	22-Mar-2024 22:43
Copper	**0.00547**		**0.00200**	**mg/L**	1	22-Mar-2024 22:43
Lead	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Nickel	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Selenium	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Silver	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Thallium	ND		0.00200	mg/L	1	22-Mar-2024 22:43
Zinc	**0.110**		**0.00400**	**mg/L**	1	22-Mar-2024 22:43
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**125**		**5.00**	**umhos/cm**	1	22-Mar-2024 11:54
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	19-Mar-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**11.2**		**0.500**	**mg/L**	1	19-Mar-2024 10:05
Fluoride	ND		0.100	mg/L	1	19-Mar-2024 10:05
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	19-Mar-2024 10:05
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	19-Mar-2024 10:05
Sulfate	**4.26**		**0.500**	**mg/L**	1	19-Mar-2024 10:05
Nitrate/Nitrite (as N)	ND		0.200	mg/L	1	19-Mar-2024 10:05
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 25-Mar-2024		Analyst: MM
Phosphate, Total	**0.331**		**0.153**	**mg/L**	1	25-Mar-2024 15:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 002
Collection Date: 18-Mar-2024 11:41

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	ND		15.0	mg/L	1	26-Mar-2024 15:47
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**66.0**		**10.0**	**mg/L**	1	19-Mar-2024 08:00
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**3.12**		**2.50**	**mg/L**	1	19-Mar-2024 11:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	19-Mar-2024 10:43
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 21-Mar-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**1.4**		**0.50**	**mg/L**	1	21-Mar-2024 14:11
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**9.58**	H	**1.00**	**mg/L**	1	21-Mar-2024 10:43
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**36.1**		**5.00**	**mg/L**	1	21-Mar-2024 10:28
Alkalinity, Total (As CaCO3)	**36.1**		**5.00**	**mg/L**	1	21-Mar-2024 10:28
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 26-Mar-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.082**		**0.050**	**mg/L**	1	27-Mar-2024 17:40
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	ND	H	0.10	mg/L	1	29-Mar-2024 14:19
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**6.73**	H	**0.100**	**pH Units**	1	29-Mar-2024 09:02
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Biochemical Oxygen Demand	ND		2.00	mg/L	1	23-Mar-2024 12:58
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Carbonaceous Biochemical Oxygen Demand	ND		2.00	mg/L	1	23-Mar-2024 15:01
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**2.76**		**1.00**	**mg/L**	1	20-Mar-2024 00:48
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	29-Mar-2024 16:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 002 LL Hg Duplicate
Collection Date: 18-Mar-2024 11:41

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 002 LL Hg Field Blank
Collection Date: 18-Mar-2024 11:41

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 003
Collection Date: 18-Mar-2024 11:36

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	19-Mar-2024 19:33
Ethylbenzene	ND		5.00	ug/L	1	19-Mar-2024 19:33
Toluene	ND		5.00	ug/L	1	19-Mar-2024 19:33
Xylenes, Total	ND		5.00	ug/L	1	19-Mar-2024 19:33
Surr: 1,2-Dichloroethane-d4	*121*		*70-126*	*%REC*	*1*	*19-Mar-2024 19:33*
Surr: 4-Bromofluorobenzene	*98.0*		*82-124*	*%REC*	*1*	*19-Mar-2024 19:33*
Surr: Dibromofluoromethane	*119*		*77-123*	*%REC*	*1*	*19-Mar-2024 19:33*
Surr: Toluene-d8	*96.2*		*82-127*	*%REC*	*1*	*19-Mar-2024 19:33*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	29-Mar-2024 11:23
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 19-Mar-2024		Analyst: JC
Aluminum	**0.655**		**0.0100**	**mg/L**	1	22-Mar-2024 22:49
Antimony	ND		0.00500	mg/L	1	22-Mar-2024 22:49
Arsenic	**0.00224**		**0.00200**	**mg/L**	1	22-Mar-2024 22:49
Barium	**0.0412**		**0.00400**	**mg/L**	1	22-Mar-2024 22:49
Beryllium	ND		0.00500	mg/L	1	22-Mar-2024 22:49
Cadmium	ND		0.00200	mg/L	1	22-Mar-2024 22:49
Chromium	ND		0.00400	mg/L	1	22-Mar-2024 22:49
Copper	**0.00415**		**0.00200**	**mg/L**	1	22-Mar-2024 22:49
Lead	ND		0.00200	mg/L	1	22-Mar-2024 22:49
Nickel	**0.00313**		**0.00200**	**mg/L**	1	22-Mar-2024 22:49
Selenium	ND		0.00200	mg/L	1	22-Mar-2024 22:49
Silver	ND		0.00200	mg/L	1	22-Mar-2024 22:49
Thallium	ND		0.00200	mg/L	1	22-Mar-2024 22:49
Zinc	**0.188**		**0.00400**	**mg/L**	1	22-Mar-2024 22:49
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**1,290**		**5.00**	**umhos/cm**	1	22-Mar-2024 11:54
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	**2.13**		**2.00**	**mg/L**	1	19-Mar-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**273**		**5.00**	**mg/L**	10	19-Mar-2024 10:53
Fluoride	**0.203**		**0.100**	**mg/L**	1	19-Mar-2024 10:47
Nitrogen, Nitrate (As N)	**0.239**		**0.100**	**mg/L**	1	19-Mar-2024 10:47
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	19-Mar-2024 10:47
Sulfate	**41.1**		**0.500**	**mg/L**	1	19-Mar-2024 10:47
Nitrate/Nitrite (as N)	**0.239**		**0.200**	**mg/L**	1	19-Mar-2024 10:47
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 25-Mar-2024		Analyst: MM
Phosphate, Total	**0.696**		**0.153**	**mg/L**	1	25-Mar-2024 15:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 003
Collection Date: 18-Mar-2024 11:36

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**25.0**		**15.0**	**mg/L**	1	26-Mar-2024 15:47
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**582**		**10.0**	**mg/L**	1	19-Mar-2024 08:00
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**22.8**		**2.50**	**mg/L**	1	19-Mar-2024 11:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	19-Mar-2024 10:43
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 27-Mar-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**5.1**		**0.50**	**mg/L**	1	27-Mar-2024 17:30
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**7.49**	H	**1.00**	**mg/L**	1	21-Mar-2024 10:43
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**101**		**5.00**	**mg/L**	1	21-Mar-2024 10:33
Alkalinity, Total (As CaCO3)	**101**		**5.00**	**mg/L**	1	21-Mar-2024 10:33
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 26-Mar-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	ND		0.050	mg/L	1	27-Mar-2024 17:40
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	**0.10**	H	**0.10**	**mg/L**	1	29-Mar-2024 14:19
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.04**	H	**0.100**	**pH Units**	1	29-Mar-2024 09:03
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Biochemical Oxygen Demand	**4.60**		**2.00**	**mg/L**	1	23-Mar-2024 12:58
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Carbonaceous Biochemical Oxygen Demand	**4.27**		**2.00**	**mg/L**	1	23-Mar-2024 15:01
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**9.63**		**1.00**	**mg/L**	1	20-Mar-2024 01:03
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	29-Mar-2024 16:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 003 LL Hg Duplicate
Collection Date: 18-Mar-2024 11:36

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-05
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 003 LL Hg Field Blank
Collection Date: 18-Mar-2024 11:36

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-06
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 004
Collection Date: 18-Mar-2024 11:31

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	19-Mar-2024 19:57
Ethylbenzene	ND		5.00	ug/L	1	19-Mar-2024 19:57
Toluene	ND		5.00	ug/L	1	19-Mar-2024 19:57
Xylenes, Total	ND		5.00	ug/L	1	19-Mar-2024 19:57
Surr: 1,2-Dichloroethane-d4	*130*	*S*	*70-126*	*%REC*	*1*	*19-Mar-2024 19:57*
Surr: 4-Bromofluorobenzene	*101*		*82-124*	*%REC*	*1*	*19-Mar-2024 19:57*
Surr: Dibromofluoromethane	*123*		*77-123*	*%REC*	*1*	*19-Mar-2024 19:57*
Surr: Toluene-d8	*99.8*		*82-127*	*%REC*	*1*	*19-Mar-2024 19:57*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	29-Mar-2024 11:23
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 19-Mar-2024		Analyst: JC
Aluminum	**0.495**		**0.0100**	**mg/L**	1	23-Mar-2024 00:23
Antimony	ND		0.00500	mg/L	1	23-Mar-2024 00:23
Arsenic	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Barium	**0.0476**		**0.00400**	**mg/L**	1	23-Mar-2024 00:23
Beryllium	ND		0.00500	mg/L	1	23-Mar-2024 00:23
Cadmium	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Chromium	ND		0.00400	mg/L	1	23-Mar-2024 00:23
Copper	**0.00729**		**0.00200**	**mg/L**	1	23-Mar-2024 00:23
Lead	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Nickel	**0.00225**		**0.00200**	**mg/L**	1	23-Mar-2024 00:23
Selenium	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Silver	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Thallium	ND		0.00200	mg/L	1	23-Mar-2024 00:23
Zinc	**0.0587**		**0.00400**	**mg/L**	1	23-Mar-2024 00:23
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**1,600**		**5.00**	**umhos/cm**	1	22-Mar-2024 11:54
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	19-Mar-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**377**		**5.00**	**mg/L**	10	19-Mar-2024 11:04
Fluoride	ND		0.100	mg/L	1	19-Mar-2024 10:58
Nitrogen, Nitrate (As N)	**0.750**		**0.100**	**mg/L**	1	19-Mar-2024 10:58
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	19-Mar-2024 10:58
Sulfate	**57.3**		**0.500**	**mg/L**	1	19-Mar-2024 10:58
Nitrate/Nitrite (as N)	**0.75**		**0.200**	**mg/L**	1	19-Mar-2024 10:58
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 25-Mar-2024		Analyst: MM
Phosphate, Total	**0.190**		**0.153**	**mg/L**	1	25-Mar-2024 15:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 004
Collection Date: 18-Mar-2024 11:31

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**15.0**		**15.0**	**mg/L**	1	26-Mar-2024 15:47
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**772**		**10.0**	**mg/L**	1	19-Mar-2024 08:00
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**31.6**		**2.50**	**mg/L**	1	19-Mar-2024 11:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	19-Mar-2024 10:43
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 29-Mar-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**2.3**		**0.50**	**mg/L**	1	29-Mar-2024 13:00
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**8.66**	H	**1.00**	**mg/L**	1	21-Mar-2024 10:43
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**76.8**		**5.00**	**mg/L**	1	21-Mar-2024 10:39
Alkalinity, Total (As CaCO3)	**76.8**		**5.00**	**mg/L**	1	21-Mar-2024 10:39
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 26-Mar-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.14**		**0.050**	**mg/L**	1	27-Mar-2024 17:40
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	**0.10**	H	**0.10**	**mg/L**	1	29-Mar-2024 14:19
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.15**	H	**0.100**	**pH Units**	1	29-Mar-2024 09:04
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Biochemical Oxygen Demand	**2.61**		**2.00**	**mg/L**	1	23-Mar-2024 12:58
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 18-Mar-2024		Analyst: JAC
Carbonaceous Biochemical Oxygen Demand	ND		2.00	mg/L	1	23-Mar-2024 15:01
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**4.65**		**1.00**	**mg/L**	1	22-Mar-2024 00:09
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	29-Mar-2024 16:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
Sample ID: Outfall 004 LL Hg Duplicate
Collection Date: 18-Mar-2024 11:31

ANALYTICAL REPORT
WorkOrder:HS24030930
Lab ID:HS24030930-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Freeport LNG Development L.P.	**ANALYTICAL REPORT**
Project:	Freeport Permit	WorkOrder:HS24030930
Sample ID:	Outfall 004 LL Hg Field Blank	Lab ID:HS24030930-09
Collection Date:	18-Mar-2024 11:31	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	29-Mar-2024 07:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

Batch ID: 209007 **Start Date:** 18 Mar 2024 12:00 **End Date:** 18 Mar 2024 12:00
Method: WETCHEMPREP, BOD **Prep Code:** BOD_PR 5210B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24030930-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24030930-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209008 **Start Date:** 18 Mar 2024 12:00 **End Date:** 18 Mar 2024 12:00
Method: CBOD PREP **Prep Code:** CBOD_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24030930-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24030930-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209083 **Start Date:** 19 Mar 2024 12:00 **End Date:** 19 Mar 2024 12:00
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24030930-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24030930-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 209220 **Start Date:** 21 Mar 2024 09:32 **End Date:** 21 Mar 2024 09:32
Method: TKN WATER - PREP **Prep Code:** TKN_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

Batch ID: 209388 **Start Date:** 25 Mar 2024 10:32 **End Date:** 25 Mar 2024 10:32
Method: PHOSPHOROUS **Prep Code:** P_TW_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24030930-04		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24030930-07		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2

Batch ID: 209463 **Start Date:** 26 Mar 2024 10:00 **End Date:** 26 Mar 2024 10:00
Method: NITROGEN AMMONIA - WATER - PREP **Prep Code:** NIT_AMM_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-01		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24030930-04		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24030930-07		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

Batch ID: 209520 **Start Date:** 27 Mar 2024 10:43 **End Date:** 27 Mar 2024 10:43
Method: TKN WATER - PREP **Prep Code:** TKN_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-04		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

Batch ID: 209670 **Start Date:** 29 Mar 2024 08:22 **End Date:** 29 Mar 2024 08:22
Method: TKN WATER - PREP **Prep Code:** TKN_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24030930-07		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209007 (0)	**Test Name :** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		18 Mar 2024 12:00	23 Mar 2024 12:58	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36		18 Mar 2024 12:00	23 Mar 2024 12:58	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31		18 Mar 2024 12:00	23 Mar 2024 12:58	1
Batch ID: 209008 (0)	**Test Name :** CBOD BY SM5210B-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		18 Mar 2024 12:00	23 Mar 2024 15:01	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36		18 Mar 2024 12:00	23 Mar 2024 15:01	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31		18 Mar 2024 12:00	23 Mar 2024 15:01	1
Batch ID: 209083 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		19 Mar 2024 12:00	22 Mar 2024 22:43	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36		19 Mar 2024 12:00	22 Mar 2024 22:49	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31		19 Mar 2024 12:00	23 Mar 2024 00:23	1
Batch ID: 209220 (0)	**Test Name :** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		21 Mar 2024 09:32	21 Mar 2024 14:11	1
Batch ID: 209388 (0)	**Test Name :** PHOSPHORUS BY E365.3-1978				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		25 Mar 2024 10:32	25 Mar 2024 15:35	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36		25 Mar 2024 10:32	25 Mar 2024 15:35	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31		25 Mar 2024 10:32	25 Mar 2024 15:35	1
Batch ID: 209463 (0)	**Test Name :** AMMONIA AS N BY SM4500 NH3-B-F-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41		26 Mar 2024 10:00	27 Mar 2024 17:40	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36		26 Mar 2024 10:00	27 Mar 2024 17:40	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31		26 Mar 2024 10:00	27 Mar 2024 17:40	1
Batch ID: 209520 (0)	**Test Name :** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011				**Matrix:** Water	
HS24030930-04	Outfall 003	18 Mar 2024 11:36		27 Mar 2024 10:43	27 Mar 2024 17:30	1
Batch ID: 209670 (0)	**Test Name :** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011				**Matrix:** Water	
HS24030930-07	Outfall 004	18 Mar 2024 11:31		29 Mar 2024 08:22	29 Mar 2024 13:00	1
Batch ID: R461608 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 07:00	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 07:00	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 07:00	1
Batch ID: R461661 (0)	**Test Name :** TOTAL SUSPENDED SOLIDS BY SM 2540D-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 11:00	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 11:00	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 11:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R461665 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 08:00	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 08:00	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 08:00	1
Batch ID: R461675 (0)	**Test Name :** VOLATILES				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 19:10	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 19:33	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 19:57	1
Batch ID: R461696 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			20 Mar 2024 00:48	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			20 Mar 2024 01:03	1
Batch ID: R461699 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 10:05	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 10:53	10
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 10:47	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 11:04	10
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 10:58	1
Batch ID: R461700 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SM3500-CR B-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			19 Mar 2024 10:43	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			19 Mar 2024 10:43	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			19 Mar 2024 10:43	1
Batch ID: R461817 (0)	**Test Name :** DISSOLVED OXYGEN BY SM4500-O G				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			21 Mar 2024 10:43	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			21 Mar 2024 10:43	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			21 Mar 2024 10:43	1
Batch ID: R461842 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			21 Mar 2024 10:28	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			21 Mar 2024 10:33	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			21 Mar 2024 10:39	1
Batch ID: R461914 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24030930-07	Outfall 004	18 Mar 2024 11:31			22 Mar 2024 00:09	1
Batch ID: R461946 (0)	**Test Name :** SPECIFIC CONDUCTANCE BY E120.1, 1982				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			22 Mar 2024 11:54	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			22 Mar 2024 11:54	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			22 Mar 2024 11:54	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R462251 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			26 Mar 2024 15:47	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			26 Mar 2024 15:47	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			26 Mar 2024 15:47	1
Batch ID: R462527 (0)	**Test Name :** SUBCONTRACT ANALYSIS - MERCURY LOW				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			29 Mar 2024 07:55	1
HS24030930-02	Outfall 002 LL Hg Duplicate	18 Mar 2024 11:41			29 Mar 2024 07:55	1
HS24030930-03	Outfall 002 LL Hg Field Blank	18 Mar 2024 11:41			29 Mar 2024 07:55	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			29 Mar 2024 07:55	1
HS24030930-05	Outfall 003 LL Hg Duplicate	18 Mar 2024 11:36			29 Mar 2024 07:55	1
HS24030930-06	Outfall 003 LL Hg Field Blank	18 Mar 2024 11:36			29 Mar 2024 07:55	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			29 Mar 2024 07:55	1
HS24030930-08	Outfall 004 LL Hg Duplicate	18 Mar 2024 11:31			29 Mar 2024 07:55	1
HS24030930-09	Outfall 004 LL Hg Field Blank	18 Mar 2024 11:31			29 Mar 2024 07:55	1
Batch ID: R462542 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			29 Mar 2024 09:02	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			29 Mar 2024 09:03	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			29 Mar 2024 09:04	1
Batch ID: R462564 (0)	**Test Name :** TRIVALENT CHROMIUM				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			29 Mar 2024 11:23	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			29 Mar 2024 11:23	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			29 Mar 2024 11:23	1
Batch ID: R462614 (0)	**Test Name :** RESIDUAL CHLORINE BY SM4500CL F-2011				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			29 Mar 2024 14:19	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			29 Mar 2024 14:19	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			29 Mar 2024 14:19	1
Batch ID: R463461 (0)	**Test Name :** AVAILABLE CYANIDE BY EPA OIA-1677				**Matrix:** Water	
HS24030930-01	Outfall 002	18 Mar 2024 11:41			29 Mar 2024 16:59	1
HS24030930-04	Outfall 003	18 Mar 2024 11:36			29 Mar 2024 16:59	1
HS24030930-07	Outfall 004	18 Mar 2024 11:31			29 Mar 2024 16:59	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209083 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-209083** Units: **ug/L** Analysis Date: **22-Mar-2024 22:35**
Client ID: Run ID: **ICPMS06_462061** SeqNo: **7904593** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	10.0								
Antimony	ND	5.00								
Arsenic	ND	2.00								
Barium	ND	4.00								
Beryllium	ND	5.00								
Cadmium	ND	2.00								
Chromium	ND	4.00								
Copper	ND	2.00								
Lead	ND	2.00								
Nickel	ND	2.00								
Selenium	ND	2.00								
Silver	ND	2.00								
Thallium	ND	2.00								
Zinc	ND	4.00								

LCS Sample ID: **LCS-209083** Units: **ug/L** Analysis Date: **22-Mar-2024 22:37**
Client ID: Run ID: **ICPMS06_462061** SeqNo: **7904594** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	109.7	10.0	100	0	110	85 - 115				
Antimony	47.22	5.00	50	0	94.4	85 - 115				
Arsenic	47.05	2.00	50	0	94.1	85 - 115				
Barium	49.22	4.00	50	0	98.4	85 - 115				
Beryllium	47.35	5.00	50	0	94.7	85 - 115				
Cadmium	47.42	2.00	50	0	94.8	85 - 115				
Chromium	47.77	4.00	50	0	95.5	85 - 115				
Copper	49.16	2.00	50	0	98.3	85 - 115				
Lead	47.54	2.00	50	0	95.1	85 - 115				
Nickel	49.12	2.00	50	0	98.2	85 - 115				
Selenium	47.98	2.00	50	0	96.0	85 - 115				
Silver	47.7	2.00	50	0	95.4	85 - 115				
Zinc	54.29	4.00	50	0	109	85 - 115				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209083 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

LCS Sample ID: **LCS-209083** Units: **ug/L** Analysis Date: **25-Mar-2024 12:04**
Client ID: Run ID: **ICPMS06_462098** SeqNo: **7905351** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	49.38	2.00	50	0	98.8	85 - 115				

MS Sample ID: **HS24030930-04MS** Units: **ug/L** Analysis Date: **22-Mar-2024 22:51**
Client ID: **Outfall 003** Run ID: **ICPMS06_462061** SeqNo: **7904601** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	942.5	10.0	100	655.1	287	70 - 130				SO
Antimony	47.75	5.00	50	2.144	91.2	70 - 130				
Arsenic	49.79	2.00	50	2.237	95.1	70 - 130				
Barium	87.7	4.00	50	41.2	93.0	70 - 130				
Beryllium	46.64	5.00	50	0.078	93.1	70 - 130				
Cadmium	45.88	2.00	50	0.048	91.7	70 - 130				
Chromium	47.35	4.00	50	2.034	90.6	70 - 130				
Copper	50.47	2.00	50	4.152	92.6	70 - 130				
Lead	47.41	2.00	50	0.714	93.4	70 - 130				
Nickel	48.48	2.00	50	3.127	90.7	70 - 130				
Selenium	46.7	2.00	50	0.87	91.7	70 - 130				
Silver	44.9	2.00	50	0.025	89.8	70 - 130				
Thallium	42.04	2.00	50	1.058	82.0	70 - 130				
Zinc	233.2	4.00	50	188.1	90.3	70 - 130				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209083 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS24030930-01MS** Units: **ug/L** Analysis Date: **22-Mar-2024 22:45**
Client ID: **Outfall 002** Run ID: **ICPMS06_462061** SeqNo: **7904598** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	312.5	10.0	100	214	98.4	70 - 130				
Antimony	48.52	5.00	50	1.167	94.7	70 - 130				
Arsenic	48.03	2.00	50	0.332	95.4	70 - 130				
Barium	62.82	4.00	50	13.99	97.7	70 - 130				
Beryllium	47.46	5.00	50	0.054	94.8	70 - 130				
Cadmium	48.54	2.00	50	0.023	97.0	70 - 130				
Chromium	48.43	4.00	50	0.767	95.3	70 - 130				
Copper	54.37	2.00	50	5.473	97.8	70 - 130				
Lead	48.07	2.00	50	0.273	95.6	70 - 130				
Nickel	49.15	2.00	50	0.843	96.6	70 - 130				
Selenium	47.04	2.00	50	0.202	93.7	70 - 130				
Silver	47.99	2.00	50	0.046	95.9	70 - 130				
Thallium	42.82	2.00	50	0.108	85.4	70 - 130				
Zinc	158.3	4.00	50	109.9	96.8	70 - 130				

MSD Sample ID: **HS24030930-04MSD** Units: **ug/L** Analysis Date: **22-Mar-2024 22:53**
Client ID: **Outfall 003** Run ID: **ICPMS06_462061** SeqNo: **7904602** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1023	10.0	100	655.1	368	70 - 130	942.5	8.17	20	SO
Antimony	48.41	5.00	50	2.144	92.5	70 - 130	47.75	1.37	20	
Arsenic	50.03	2.00	50	2.237	95.6	70 - 130	49.79	0.493	20	
Barium	87.97	4.00	50	41.2	93.5	70 - 130	87.7	0.304	20	
Beryllium	46.66	5.00	50	0.078	93.2	70 - 130	46.64	0.0407	20	
Cadmium	47.19	2.00	50	0.048	94.3	70 - 130	45.88	2.83	20	
Chromium	48.08	4.00	50	2.034	92.1	70 - 130	47.35	1.52	20	
Copper	51.26	2.00	50	4.152	94.2	70 - 130	50.47	1.55	20	
Lead	47.82	2.00	50	0.714	94.2	70 - 130	47.41	0.859	20	
Nickel	48.93	2.00	50	3.127	91.6	70 - 130	48.48	0.912	20	
Selenium	48.08	2.00	50	0.87	94.4	70 - 130	46.7	2.93	20	
Silver	45.5	2.00	50	0.025	91.0	70 - 130	44.9	1.32	20	
Thallium	43.02	2.00	50	1.058	83.9	70 - 130	42.04	2.3	20	
Zinc	236.2	4.00	50	188.1	96.3	70 - 130	233.2	1.27	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209083 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS24030930-01MSD** Units: **ug/L** Analysis Date: **22-Mar-2024 22:47**
Client ID: **Outfall 002** Run ID: **ICPMS06_462061** SeqNo: **7904599** PrepDate: **19-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	316.9	10.0	100	214	103	70 - 130	312.5	1.4	20	
Antimony	48.84	5.00	50	1.167	95.3	70 - 130	48.52	0.657	20	
Arsenic	49.07	2.00	50	0.332	97.5	70 - 130	48.03	2.14	20	
Barium	62.97	4.00	50	13.99	98.0	70 - 130	62.82	0.237	20	
Beryllium	47.9	5.00	50	0.054	95.7	70 - 130	47.46	0.927	20	
Cadmium	48.77	2.00	50	0.023	97.5	70 - 130	48.54	0.483	20	
Chromium	49.47	4.00	50	0.767	97.4	70 - 130	48.43	2.14	20	
Copper	55.07	2.00	50	5.473	99.2	70 - 130	54.37	1.29	20	
Lead	48.64	2.00	50	0.273	96.7	70 - 130	48.07	1.17	20	
Nickel	50.07	2.00	50	0.843	98.4	70 - 130	49.15	1.84	20	
Selenium	48.19	2.00	50	0.202	96.0	70 - 130	47.04	2.43	20	
Silver	47.84	2.00	50	0.046	95.6	70 - 130	47.99	0.323	20	
Thallium	43.97	2.00	50	0.108	87.7	70 - 130	42.82	2.65	20	
Zinc	159	4.00	50	109.9	98.2	70 - 130	158.3	0.434	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461675 (0) **Instrument: VOA13** **Method: VOLATILES**

MBLK Sample ID: **VBLKW-240319** Units: **ug/L** Analysis Date: **19-Mar-2024 11:18**
Client ID: Run ID: **VOA13_461675** SeqNo: **7896071** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.00								
Ethylbenzene	ND	5.00								
Toluene	ND	5.00								
Xylenes, Total	ND	5.00								
Surr: 1,2-Dichloroethane-d4	*58.58*	*5.00*	*50*	*0*	*117*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*51.01*	*5.00*	*50*	*0*	*102*	*82 - 124*				
Surr: Dibromofluoromethane	*56.07*	*5.00*	*50*	*0*	*112*	*77 - 123*				
Surr: Toluene-d8	*49.56*	*5.00*	*50*	*0*	*99.1*	*82 - 127*				

LCS Sample ID: **VLSCW-240319** Units: **ug/L** Analysis Date: **19-Mar-2024 10:31**
Client ID: Run ID: **VOA13_461675** SeqNo: **7896070** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.14	5.00	20	0	95.7	74 - 120				
Ethylbenzene	19.37	5.00	20	0	96.8	77 - 117				
Toluene	18.11	5.00	20	0	90.5	77 - 118				
Xylenes, Total	59.43	5.00	60	0	99.0	75 - 122				
Surr: 1,2-Dichloroethane-d4	*57.98*	*5.00*	*50*	*0*	*116*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*51.64*	*5.00*	*50*	*0*	*103*	*83 - 122*				
Surr: Dibromofluoromethane	*53.83*	*5.00*	*50*	*0*	*108*	*73 - 126*				
Surr: Toluene-d8	*51.04*	*5.00*	*50*	*0*	*102*	*81 - 119*				

MS Sample ID: **HS24030826-01MS** Units: **ug/L** Analysis Date: **19-Mar-2024 12:29**
Client ID: Run ID: **VOA13_461675** SeqNo: **7896073** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	3300	500	2000	1565	86.7	70 - 127				
Ethylbenzene	1681	500	2000	0	84.1	70 - 124				
Toluene	1531	500	2000	0	76.6	70 - 123				
Xylenes, Total	4796	500	6000	0	79.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*5839*	*500*	*5000*	*0*	*117*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*5109*	*500*	*5000*	*0*	*102*	*82 - 124*				
Surr: Dibromofluoromethane	*5362*	*500*	*5000*	*0*	*107*	*77 - 123*				
Surr: Toluene-d8	*5134*	*500*	*5000*	*0*	*103*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461675 (0) **Instrument: VOA13** **Method: VOLATILES**

MSD Sample ID: **HS24030826-01MSD** Units: **ug/L** Analysis Date: **19-Mar-2024 12:53**
Client ID: Run ID: **VOA13_461675** SeqNo: **7896074** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	3082	500	2000	1565	75.8	70 - 127	3300	6.84	20	
Ethylbenzene	1589	500	2000	0	79.5	70 - 124	1681	5.62	20	
Toluene	1441	500	2000	0	72.1	70 - 123	1531	6.06	20	
Xylenes, Total	4564	500	6000	0	76.1	70 - 130	4796	4.96	20	
Surr: 1,2-Dichloroethane-d4	*5977*	*500*	*5000*	*0*	*120*	*70 - 126*	*5839*	*2.33*	*20*	
Surr: 4-Bromofluorobenzene	*5084*	*500*	*5000*	*0*	*102*	*82 - 124*	*5109*	*0.499*	*20*	
Surr: Dibromofluoromethane	*5536*	*500*	*5000*	*0*	*111*	*77 - 123*	*5362*	*3.2*	*20*	
Surr: Toluene-d8	*5039*	*500*	*5000*	*0*	*101*	*82 - 127*	*5134*	*1.86*	*20*	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209007 (0) **Instrument: Skalar 02** **Method: BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011**

MBLK Sample ID: **MBLK-209007** Units: **mg/L** Analysis Date: **23-Mar-2024 12:58**
Client ID: Run ID: **Skalar 02_462034** SeqNo: **7903971** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209007** Units: **mg/L** Analysis Date: **23-Mar-2024 12:58**
Client ID: Run ID: **Skalar 02_462034** SeqNo: **7903970** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	194.5	2.00	198	0	98.3	85 - 115				

DUP Sample ID: **HS24030910-01DUP** Units: **mg/L** Analysis Date: **23-Mar-2024 12:58**
Client ID: Run ID: **Skalar 02_462034** SeqNo: **7903969** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	3.02	2.00					3.1	2.61	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209008 (0) **Instrument: Skalar 02** **Method: CBOD BY SM5210B-2011**

MBLK Sample ID: **MBLK-209008** Units: **mg/L** Analysis Date: **23-Mar-2024 15:01**
Client ID: Run ID: **Skalar 02_462037** SeqNo: **7904019** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209008** Units: **mg/L** Analysis Date: **23-Mar-2024 15:01**
Client ID: Run ID: **Skalar 02_462037** SeqNo: **7904018** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	203.8	2.00	198	0	103	85 - 115				

DUP Sample ID: **HS24030908-02DUP** Units: **mg/L** Analysis Date: **23-Mar-2024 15:01**
Client ID: Run ID: **Skalar 02_462037** SeqNo: **7904017** PrepDate: **18-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	ND	2.00					0.79	0	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209220 (0) **Instrument: WetChem_HS** **Method: TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011**

MBLK Sample ID: **MBLK-209220** Units: **mg/L** Analysis Date: **21-Mar-2024 14:11**
Client ID: Run ID: **WetChem_HS_461859** SeqNo: **7900046** PrepDate: **21-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-209220** Units: **mg/L** Analysis Date: **21-Mar-2024 14:11**
Client ID: Run ID: **WetChem_HS_461859** SeqNo: **7900045** PrepDate: **21-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	18.96	0.50	20	0	94.8	85 - 115				

MS Sample ID: **HS24030930-01MS** Units: **mg/L** Analysis Date: **21-Mar-2024 14:11**
Client ID: **Outfall 002** Run ID: **WetChem_HS_461859** SeqNo: **7900043** PrepDate: **21-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	20.71	0.50	20	1.404	96.5	75 - 125				

MSD Sample ID: **HS24030930-01MSD** Units: **mg/L** Analysis Date: **21-Mar-2024 14:11**
Client ID: **Outfall 002** Run ID: **WetChem_HS_461859** SeqNo: **7900044** PrepDate: **21-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21	0.50	20	1.404	98.0	75 - 125	20.71	1.37	20	

The following samples were analyzed in this batch: HS24030930-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209388 (0) **Instrument: UV-2450** **Method: PHOSPHORUS BY E365.3-1978**

MBLK Sample ID: **MBLK-209388** Units: **mg/L** Analysis Date: **25-Mar-2024 15:35**
Client ID: Run ID: **UV-2450_462146** SeqNo: **7906236** PrepDate: **25-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	ND	0.153								

LCS Sample ID: **LCS-209388** Units: **mg/L** Analysis Date: **25-Mar-2024 15:35**
Client ID: Run ID: **UV-2450_462146** SeqNo: **7906235** PrepDate: **25-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.8398	0.153	0.766	0	110	80 - 120				

MS Sample ID: **HS24030930-01MS** Units: **mg/L** Analysis Date: **25-Mar-2024 15:35**
Client ID: **Outfall 002** Run ID: **UV-2450_462146** SeqNo: **7906233** PrepDate: **25-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	1.027	0.153	0.766	0.331	90.8	80 - 120				

MSD Sample ID: **HS24030930-01MSD** Units: **mg/L** Analysis Date: **25-Mar-2024 15:35**
Client ID: **Outfall 002** Run ID: **UV-2450_462146** SeqNo: **7906234** PrepDate: **25-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	1.005	0.153	0.766	0.331	88.0	80 - 120	1.027	2.11	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209463 (0) **Instrument: UV-2450** **Method: AMMONIA AS N BY SM4500 NH3-B-F-2011**

MBLK Sample ID: **MBLK-209463** Units: **mg/L** Analysis Date: **27-Mar-2024 17:40**
Client ID: Run ID: **UV-2450_462406** SeqNo: **7912681** PrepDate: **26-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	ND	0.050								

LCS Sample ID: **LCS-209463** Units: **mg/L** Analysis Date: **27-Mar-2024 17:40**
Client ID: Run ID: **UV-2450_462406** SeqNo: **7912680** PrepDate: **26-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.455	0.050	0.5	0	91.0	85 - 115				

MS Sample ID: **HS24031014-01MS** Units: **mg/L** Analysis Date: **27-Mar-2024 17:40**
Client ID: Run ID: **UV-2450_462406** SeqNo: **7912678** PrepDate: **26-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.544	0.050	0.5	0.026	104	80 - 120				

MSD Sample ID: **HS24031014-01MSD** Units: **mg/L** Analysis Date: **27-Mar-2024 17:40**
Client ID: Run ID: **UV-2450_462406** SeqNo: **7912679** PrepDate: **26-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.554	0.050	0.5	0.026	106	80 - 120	0.544	1.82	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209520 (0) **Instrument: WetChem_HS** **Method: TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011**

MBLK Sample ID: **MBLK-209520** Units: **mg/L** Analysis Date: **27-Mar-2024 17:30**
Client ID: Run ID: **WetChem_HS_462360** SeqNo: **7911489** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-209520** Units: **mg/L** Analysis Date: **27-Mar-2024 17:30**
Client ID: Run ID: **WetChem_HS_462360** SeqNo: **7911488** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	19	0.50	20	0	95.0	85 - 115				

MS Sample ID: **HS24030709-05MS** Units: **mg/L** Analysis Date: **27-Mar-2024 17:30**
Client ID: Run ID: **WetChem_HS_462360** SeqNo: **7911486** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.77	0.50	20	1.216	103	75 - 125				

MSD Sample ID: **HS24030709-05MSD** Units: **mg/L** Analysis Date: **27-Mar-2024 17:30**
Client ID: Run ID: **WetChem_HS_462360** SeqNo: **7911487** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.15	0.50	20	1.216	99.6	75 - 125	21.77	2.91	20	

The following samples were analyzed in this batch: HS24030930-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: 209670 (0) **Instrument: WetChem_HS** **Method: TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011**

MBLK Sample ID: **MBLK-209670** Units: **mg/L** Analysis Date: **29-Mar-2024 13:00**
Client ID: Run ID: **WetChem_HS_462612** SeqNo: **7916660** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-209670** Units: **mg/L** Analysis Date: **29-Mar-2024 13:00**
Client ID: Run ID: **WetChem_HS_462612** SeqNo: **7916659** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	18.93	0.50	20	0	94.6	85 - 115				

MS Sample ID: **HS24030930-07MS** Units: **mg/L** Analysis Date: **29-Mar-2024 13:00**
Client ID: **Outfall 004** Run ID: **WetChem_HS_462612** SeqNo: **7916657** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.28	0.50	20	2.31	94.9	75 - 125				

MSD Sample ID: **HS24030930-07MSD** Units: **mg/L** Analysis Date: **29-Mar-2024 13:00**
Client ID: **Outfall 004** Run ID: **WetChem_HS_462612** SeqNo: **7916658** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.75	0.50	20	2.31	97.2	75 - 125	21.28	2.17	20	

The following samples were analyzed in this batch: HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461608 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK	Sample ID: **WMBLK-0319024**			Units: **mg/L**		Analysis Date: **19-Mar-2024 07:00**				
Client ID:		Run ID: **Balance1_461608**		SeqNo: **7894401**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	ND	2.00								
LCS	Sample ID: **LCS-03192024**			Units: **mg/L**		Analysis Date: **19-Mar-2024 07:00**				
Client ID:		Run ID: **Balance1_461608**		SeqNo: **7894399**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.7	2.00	40	0	112	78 - 114				
LCSD	Sample ID: **LCSD-03192024**			Units: **mg/L**		Analysis Date: **19-Mar-2024 07:00**				
Client ID:		Run ID: **Balance1_461608**		SeqNo: **7894400**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	41.1	2.00	40	0	103	78 - 114	44.7	8.39	18	
MS	Sample ID: **HS24030908-01MS**			Units: **mg/L**		Analysis Date: **19-Mar-2024 07:00**				
Client ID:		Run ID: **Balance1_461608**		SeqNo: **7894387**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.7	2.00	40	1.667	105	78 - 114				

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461661 (0) **Instrument: Balance1** **Method: TOTAL SUSPENDED SOLIDS BY SM 2540D-2011**

MBLK Sample ID: **WMBLK-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 11:00**
Client ID: Run ID: **Balance1_461661** SeqNo: **7895309** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	ND	2.50								

LCS Sample ID: **WLCS-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 11:00**
Client ID: Run ID: **Balance1_461661** SeqNo: **7895308** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	113	2.50	100	0	113	85 - 115				

DUP Sample ID: **HS24030907-03DUP** Units: **mg/L** Analysis Date: **19-Mar-2024 11:00**
Client ID: Run ID: **Balance1_461661** SeqNo: **7895293** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	12.2	2.50					12	1.65	20	

DUP Sample ID: **HS24030819-01DUP** Units: **mg/L** Analysis Date: **19-Mar-2024 11:00**
Client ID: Run ID: **Balance1_461661** SeqNo: **7895289** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	78.75	2.50					75	4.88	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461665 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WMBLK-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 08:00**
Client ID: Run ID: **Balance1_461665** SeqNo: **7895564** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	ND	10.0								

LCS Sample ID: **WLCS-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 08:00**
Client ID: Run ID: **Balance1_461665** SeqNo: **7895563** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	990	10.0	1000	0	99.0	85 - 115				

DUP Sample ID: **HS24030937-09DUP** Units: **mg/L** Analysis Date: **19-Mar-2024 08:00**
Client ID: Run ID: **Balance1_461665** SeqNo: **7895562** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1548	10.0					1568	1.28	20	

DUP Sample ID: **HS24030930-07DUP** Units: **mg/L** Analysis Date: **19-Mar-2024 08:00**
Client ID: **Outfall 004** Run ID: **Balance1_461665** SeqNo: **7895552** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	768	10.0					772	0.519	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461696 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 21:46**
Client ID: Run ID: **TOC_05_461696** SeqNo: **7896527** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	1.00								

LCS Sample ID: **LCS-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 22:01**
Client ID: Run ID: **TOC_05_461696** SeqNo: **7896528** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.752	1.00	10	0	97.5	85 - 115				

LCSD Sample ID: **LCSD-03192024** Units: **mg/L** Analysis Date: **19-Mar-2024 22:17**
Client ID: Run ID: **TOC_05_461696** SeqNo: **7896529** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.05	1.00	10	0	100	85 - 115	9.752	3.01	20	

MS Sample ID: **HS24030907-02MS** Units: **mg/L** Analysis Date: **19-Mar-2024 22:48**
Client ID: Run ID: **TOC_05_461696** SeqNo: **7896531** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	19.94	1.00	10	9.859	101	80 - 120				

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461699 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **19-Mar-2024 09:11**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896485** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.500								
Fluoride	ND	0.100								
Nitrogen, Nitrate (As N)	ND	0.100								
Nitrogen, Nitrite (As N)	ND	0.100								
Nitrate/Nitrite (as N)	ND	0.200								
Sulfate	ND	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **19-Mar-2024 09:17**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896486** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.16	0.500	20	0	106	90 - 110				
Fluoride	3.924	0.100	4	0	98.1	90 - 110				
Nitrogen, Nitrate (As N)	4.074	0.100	4	0	102	90 - 110				
Nitrogen, Nitrite (As N)	4.076	0.100	4	0	102	90 - 110				
Nitrate/Nitrite (as N)	8.15	0.200	8	0	102	90 - 110				
Sulfate	20.04	0.500	20	0	100	90 - 110				

MS Sample ID: **HS24030912-01MS** Units: **mg/L** Analysis Date: **19-Mar-2024 09:41**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896489** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	612.3	10.0	200	444.6	83.8	80 - 120				
Fluoride	38.24	2.00	40	0	95.6	80 - 120				
Nitrogen, Nitrate (As N)	40.02	2.00	40	1.26	96.9	80 - 120				
Nitrogen, Nitrite (As N)	38.11	2.00	40	0	95.3	80 - 120				
Nitrate/Nitrite (as N)	78.13	4.00	80	1.26	96.1	80 - 120				
Sulfate	502.5	10.0	200	358	72.2	80 - 120				S

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461699 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MS Sample ID: **HS24030624-01MS** Units: **mg/L** Analysis Date: **19-Mar-2024 11:16**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896502** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	11100	125	2500	8632	98.8	80 - 120				
Fluoride	436	25.0	500	0	87.2	80 - 120				
Nitrogen, Nitrate (As N)	494.8	25.0	500	6.625	97.6	80 - 120				
Nitrogen, Nitrite (As N)	482.8	25.0	500	7.7	95.0	80 - 120				
Nitrate/Nitrite (as N)	977.6	50.0	1000	7.7	97.0	80 - 120				
Sulfate	5997	125	2500	3899	83.9	80 - 120				

MSD Sample ID: **HS24030912-01MSD** Units: **mg/L** Analysis Date: **19-Mar-2024 09:47**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896490** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	611.5	10.0	200	444.6	83.4	80 - 120	612.3	0.137	20	
Fluoride	37.3	2.00	40	0	93.3	80 - 120	38.24	2.49	20	
Nitrogen, Nitrate (As N)	40.18	2.00	40	1.26	97.3	80 - 120	40.02	0.414	20	
Nitrogen, Nitrite (As N)	38.21	2.00	40	0	95.5	80 - 120	38.11	0.257	20	
Nitrate/Nitrite (as N)	78.39	4.00	80	1.26	96.4	80 - 120	78.13	0.337	20	
Sulfate	502	10.0	200	358	72.0	80 - 120	502.5	0.0832	20	S

MSD Sample ID: **HS24030624-01MSD** Units: **mg/L** Analysis Date: **19-Mar-2024 11:22**
Client ID: Run ID: **ICS-Integrion_461699** SeqNo: **7896503** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	10990	125	2500	8632	94.4	80 - 120	11100	0.991	20	
Fluoride	433	25.0	500	0	86.6	80 - 120	436	0.685	20	
Nitrogen, Nitrate (As N)	491.4	25.0	500	6.625	97.0	80 - 120	494.8	0.7	20	
Nitrogen, Nitrite (As N)	478.4	25.0	500	7.7	94.1	80 - 120	482.8	0.905	20	
Nitrate/Nitrite (as N)	969.8	50.0	1000	7.7	96.2	80 - 120	977.6	0.801	20	
Sulfate	5988	125	2500	3899	83.6	80 - 120	5997	0.156	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461700 (0) **Instrument:** UV-2450 **Method:** HEXAVALENT CHROMIUM BY SM3500-CR B-2011

MBLK Sample ID: **MBLK-R461700** Units: **mg/L** Analysis Date: **19-Mar-2024 10:43**
Client ID: Run ID: **UV-2450_461700** SeqNo: **7896600** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.0200								

LCS Sample ID: **LCS-R461700** Units: **mg/L** Analysis Date: **19-Mar-2024 10:43**
Client ID: Run ID: **UV-2450_461700** SeqNo: **7896599** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.257	0.0200	0.25	0	103	80 - 120				

MS Sample ID: **HS24030930-01MS** Units: **mg/L** Analysis Date: **19-Mar-2024 10:43**
Client ID: **Outfall 002** Run ID: **UV-2450_461700** SeqNo: **7896602** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.262	0.0200	0.25	0.004	103	75 - 125				

MSD Sample ID: **HS24030930-01MSD** Units: **mg/L** Analysis Date: **19-Mar-2024 10:43**
Client ID: **Outfall 002** Run ID: **UV-2450_461700** SeqNo: **7896601** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.262	0.0200	0.25	0.004	103	75 - 125	0.262	0	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461817 (0) **Instrument: Skalar 02** **Method: DISSOLVED OXYGEN BY SM4500-O G**

DUP Sample ID: **HS24030990-01DUP** Units: **mg/L** Analysis Date: **21-Mar-2024 10:43**
Client ID: Run ID: **Skalar 02_461817** SeqNo: **7899183** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxygen, Dissolved	4.68	1.00					4.68	0	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461842 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 08:48**
Client ID: Run ID: **Skalar 03_461842** SeqNo: **7899660** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00								
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 08:54**
Client ID: Run ID: **Skalar 03_461842** SeqNo: **7899661** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	937.3	5.00	1000	0	93.7	85 - 115				

LCSD Sample ID: **LCSD-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 09:00**
Client ID: Run ID: **Skalar 03_461842** SeqNo: **7899662** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	936.9	5.00	1000	0	93.7	85 - 115	937.3	0.0427	20	

DUP Sample ID: **HS24031014-01DUP** Units: **mg/L** Analysis Date: **21-Mar-2024 09:16**
Client ID: Run ID: **Skalar 03_461842** SeqNo: **7899665** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	421.7	5.00					423.8	0.497	20	
Alkalinity, Total (As CaCO3)	421.7	5.00					423.8	0.497	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461914 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 22:06**
Client ID: Run ID: **TOC_05_461914** SeqNo: **7901556** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	1.00								

LCS Sample ID: **LCS-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 22:22**
Client ID: Run ID: **TOC_05_461914** SeqNo: **7901557** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.04	1.00	10	0	100	85 - 115				

LCSD Sample ID: **LCSD-03212024** Units: **mg/L** Analysis Date: **21-Mar-2024 22:37**
Client ID: Run ID: **TOC_05_461914** SeqNo: **7901558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.08	1.00	10	0	101	85 - 115	10.04	0.398	20	

MS Sample ID: **HS24031007-01MS** Units: **mg/L** Analysis Date: **21-Mar-2024 23:07**
Client ID: Run ID: **TOC_05_461914** SeqNo: **7901560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	15.15	1.00	10	5.195	99.6	80 - 120				

The following samples were analyzed in this batch: HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R461946 (0) **Instrument: WetChem_HS** **Method: SPECIFIC CONDUCTANCE BY E120.1, 1982**

MBLK Sample ID: **MBLK-R461946** Units: **umhos/cm** Analysis Date: **22-Mar-2024 11:54**
Client ID: Run ID: **WetChem_HS_461946** SeqNo: **7901993** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	ND	5.00								

LCS Sample ID: **LCS-R461946** Units: **umhos/cm** Analysis Date: **22-Mar-2024 11:54**
Client ID: Run ID: **WetChem_HS_461946** SeqNo: **7901992** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	1393	5.00	1413	0	98.6	80 - 120				

DUP Sample ID: **HS24030974-01DUP** Units: **umhos/cm** Analysis Date: **22-Mar-2024 11:54**
Client ID: Run ID: **WetChem_HS_461946** SeqNo: **7901994** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	2612	5.00					2609	0.115	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R462251 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R462251** Units: **mg/L** Analysis Date: **26-Mar-2024 15:47**
Client ID: Run ID: **WetChem_HS_462251** SeqNo: **7908818** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	ND	15.0								

LCS Sample ID: **LCS-R462251** Units: **mg/L** Analysis Date: **26-Mar-2024 15:47**
Client ID: Run ID: **WetChem_HS_462251** SeqNo: **7908817** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	101	15.0	100	0	101	85 - 115				

MS Sample ID: **HS24030930-01MS** Units: **mg/L** Analysis Date: **26-Mar-2024 15:47**
Client ID: **Outfall 002** Run ID: **WetChem_HS_462251** SeqNo: **7908820** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	55	15.0	50	6	98.0	80 - 120				

MSD Sample ID: **HS24030930-01MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 15:47**
Client ID: **Outfall 002** Run ID: **WetChem_HS_462251** SeqNo: **7908819** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	54	15.0	50	6	96.0	80 - 120	55	1.83	20	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R462542 (0) **Instrument: WetChem_HS** **Method: PH BY SM4500H+ B-2011**

DUP Sample ID: **HS24031345-03DUP** Units: **pH Units** Analysis Date: **29-Mar-2024 09:11**
Client ID: Run ID: **WetChem_HS_462542** SeqNo: **7915427** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.39	0.100					7.37	0.271	10	

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: HS24030930

QC BATCH REPORT

Batch ID: R462614 (0) **Instrument:** WetChem_HS **Method:** RESIDUAL CHLORINE BY SM4500CL F-2011

MBLK Sample ID: **MBLK-R462614** Units: **mg/L** Analysis Date: **29-Mar-2024 14:19**
Client ID: Run ID: **WetChem_HS_462614** SeqNo: **7916687** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	ND	0.10								

LCS Sample ID: **LCS-R462614** Units: **mg/L** Analysis Date: **29-Mar-2024 14:19**
Client ID: Run ID: **WetChem_HS_462614** SeqNo: **7916686** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.2	0.10	3.09	0	104	85 - 115				

LCSD Sample ID: **LCSD-R462614** Units: **mg/L** Analysis Date: **29-Mar-2024 14:19**
Client ID: Run ID: **WetChem_HS_462614** SeqNo: **7916685** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	85 - 115	3.2	3.17	20	

MS Sample ID: **HS24030930-01MS** Units: **mg/L** Analysis Date: **29-Mar-2024 14:19**
Client ID: **Outfall 002** Run ID: **WetChem_HS_462614** SeqNo: **7916688** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.2	0.10	3.09	0	104	80 - 120				

The following samples were analyzed in this batch: HS24030930-01 HS24030930-04 HS24030930-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport Permit
WorkOrder: **HS24030930**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter
pH units	
UG/L	Micrograms per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

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Sample Receipt Checklist

Work Order ID: HS24030930 **Date/Time Received:** **18-Mar-2024 16:05**

Client Name: Freeport LNG **Received by:** **Jacob Coronado**

Completed By:	/S/ Paresh M. Giga	18-Mar-2024 18:25	**Reviewed by:**	/S/ Andy C. Neir	19-Mar-2024 23:06
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:310351/310355
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.8C/1.7C; 1.7C/1.6C; 1.3C/1.2C U/C	IR31
Cooler(s)/Kit(s):	3 x Blue	
Date/Time sample(s) sent to storage:	3/18/24 19:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: LL Hg sample & Dup - All samples - 2 vials only.
All Trip blanks logged in on hold

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page _____ of _____

COC ID: 310351

HS24030930

Freeport LNG Development L.P.
Freeport Permit

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	Need 4/00211711	Project Name	Freeport PTF Permit LOF MAB 3/18/24
Work Order		Project Number	
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.
Send Report To	Mary Ellen	Invoice Attn	Accounts Payable
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002
Phone	(979) 415-8754	Phone	
Fax		Fax	
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com

A	624_Wdump (624 (BETX))
B	200.8 (Permit list) / Cr3 Trivalent Chrom
C	300_W/ Alk/ CL-RS/ Cond/ TDS/ pH/ Cr6
D	BOD 5210B (BOD)/ TSS
E	CBOD (CBOD)
F	DISS_O 4500-O G (DO)
G	NIT_ AMMON_W/ COD/ Total Phos
H	O&G_1664_W_HS (Oil & Grease (1664))
I	TKN_W 4500NH3 D (TKN)
J	TOC_W 5310B (TOC)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/18/24	11:41AM	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	Outfall 003	3/18/24	11:36AM	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	Outfall 004	3/18/24	11:31AM	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: M. Woodsey

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: M. Woodsey	Date: 3/18/24	Time: 4:05 PM	Received by:	
Relinquished by:	Date:	Time:	Received by (Laboratory): JC 03/19/24	16:05
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp.
Blue	1.8
Blue	1.7
Blue	1.3

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IRP
Fee 1

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Middletown, PA +1 717 944 5541
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Chain of Custody Form

Page _____ of _____

COC ID: 310355

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	Need	Project Name	Freeport PTF Permit LQP Mek 3/18/24	A	CN_W_Available (SUb to Holland)
Work Order		Project Number		B	Sub_MercuryLow (1631 LL Hg)(Sub to Holland))
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.	C	
Send Report To	Mary Ellen Ballinger	Invoice Attn	Accounts Payable	D	
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050	E F	
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002	G	
Phone	(979) 415-8754	Phone		H	
Fax		Fax		I	
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com	J	

HS24030930
Freeport LNG Development L.P.
Freeport Permit

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/18/24	11:41AM	Water	4	9	✓	✓									
2	Outfall 003	3/18/24	11:36AM	Water	4	9	✓	✓									
3	Outfall 004	3/18/24	11:31AM	Water	4	9	✓	✓									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: M. Kazen, M. Ballinger

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date: 3/18/24	Time: 4:05PM	Received by:
Relinquished by:	Date: 3/19/24	Time: 1605	Received by (Laboratory): JC
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp. °C
Blue	1.8
Blue	1.2
Blue	1.3

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

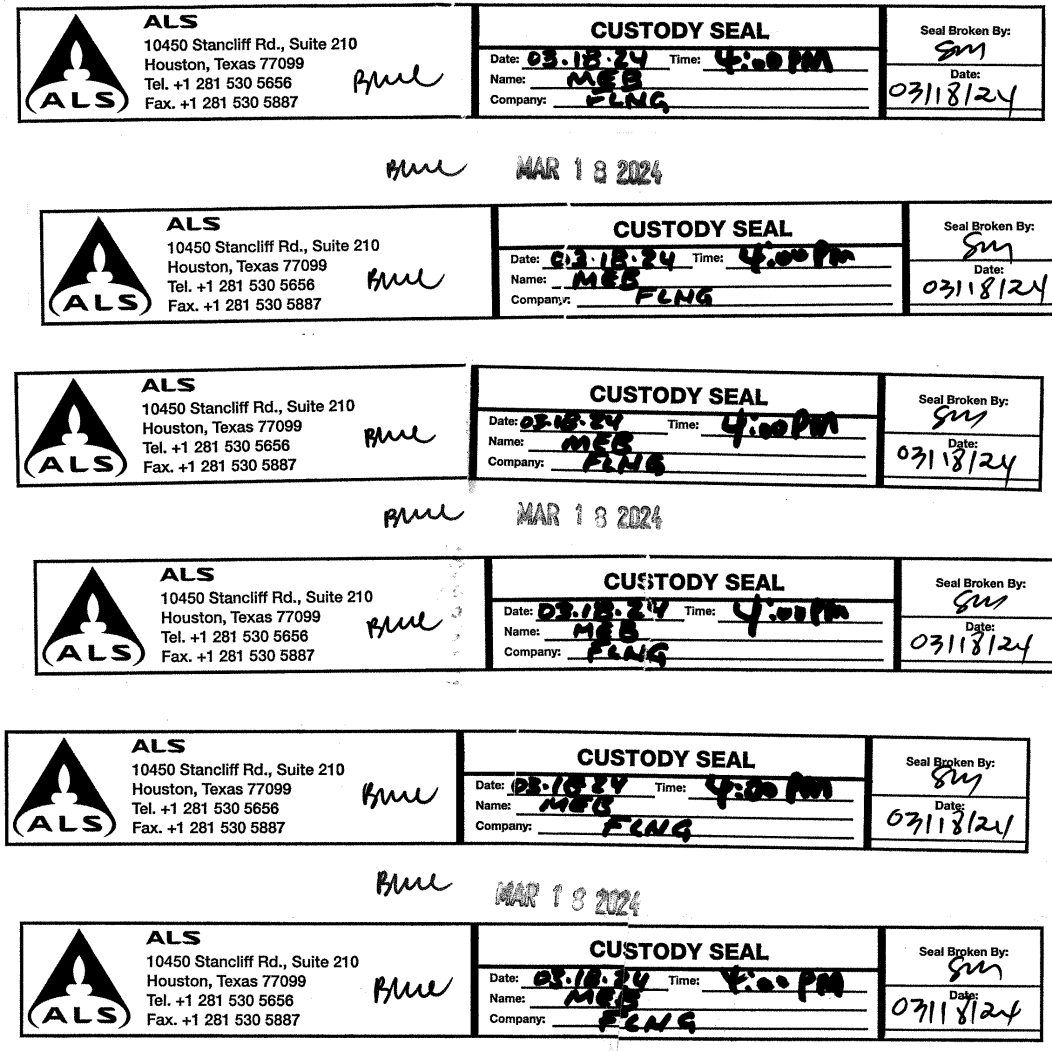
Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Houston, Texas 77099
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CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

MAR 18 2024

ALS
10450 Stancliff Rd., Suite 210
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Fax. +1 281 530 5887

CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

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Houston, Texas 77099
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Fax. +1 281 530 5887

CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

MAR 18 2024

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

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CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

MAR 18 2024

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL
Date: 03.18.24 Time: 4:00 PM
Name: MEB
Company: FLNG

Seal Broken By:
Date: 03/18/24

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March 29, 2024

Andrew Neir
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Work Order: **HN2400929**

Re: **HS24030930**

Dear Andrew,
Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Chelsey Cook
/S/ Chelsey Cook

Project Manager

Narrative Documents

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Client: ALS Environmental **Work Order:** HN2400929
Project: HS24030930 **Date Received:** 22-Mar-2024
Sample Matrix: Water

CASE NARRATIVE

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 22-Mar-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Inorganics:

No significant anomalies were noted with this analysis.

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SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: Outfall 002			Lab ID: HN2400929-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	9.38		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: Outfall 002 LL Hg Duplicate			Lab ID: HN2400929-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	9.42		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: Outfall 003			Lab ID: HN2400929-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	7.78		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: Outfall 003 LL Hg Duplicate			Lab ID: HN2400929-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	8.25		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: Outfall 004			Lab ID: HN2400929-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	5.35		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: Outfall 004 LL Hg Duplicate			Lab ID: HN2400929-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	5.31		0.200	0.500	ng/L	EPA 1631E

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Sample Receipt Information

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SAMPLE SUMMARY

Client: ALS Environmental
Project: HS24030930
Workorder: HN2400929

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2400929-001	Outfall 002	WATER	03/18/24 11:41	03/22/24 02:00
HN2400929-002	Outfall 002 LL Hg Duplicate	WATER	03/18/24 11:41	03/22/24 02:00
HN2400929-003	Outfall 002 LL Hg Field Blank	WATER	03/18/24 11:41	03/22/24 02:00
HN2400929-004	Outfall 003	WATER	03/18/24 11:36	03/22/24 02:00
HN2400929-005	Outfall 003 LL Hg Duplicate	WATER	03/18/24 11:36	03/22/24 02:00
HN2400929-006	Outfall 003 LL Hg Field Blank	WATER	03/18/24 11:36	03/22/24 02:00
HN2400929-007	Outfall 004	WATER	03/18/24 11:31	03/22/24 02:00
HN2400929-008	Outfall 004 LL Hg Duplicate	WATER	03/18/24 11:31	03/22/24 02:00
HN2400929-009	Outfall 004 LL Hg Field Blank	WATER	03/18/24 11:31	03/22/24 02:00

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Environmental Division
Holland
Work Order Reference
HN2400929



Telephone : +1 616 399 6070

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sub Custody

SAMPLING STATE: Texas **COC ID:** 25075

SUBCONTRACT TO:

ALS Laboratory Group
3352 128th Ave.
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Andy C. Neir
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Andrew.Neir@ALSGlobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24030930
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24030930-01**	**Outfall 002**	**Water**	**18 Mar 2024 11:41**
	1631 LL Hg			01 Apr 2024
	CN_W_Available			01 Apr 2024
2.	**HS24030930-02**	**Outfall 002 LL Hg Duplicate**	**Water**	**18 Mar 2024 11:41**
	1631 LL Hg			01 Apr 2024
3.	**HS24030930-03**	**Outfall 002 LL Hg Field Blank**	**Water**	**18 Mar 2024 11:41**
	1631 LL Hg			01 Apr 2024
4.	**HS24030930-04**	**Outfall 003**	**Water**	**18 Mar 2024 11:36**
	1631 LL Hg			01 Apr 2024
	CN_W_Available			01 Apr 2024
5.	**HS24030930-05**	**Outfall 003 LL Hg Duplicate**	**Water**	**18 Mar 2024 11:36**
	1631 LL Hg			01 Apr 2024
6.	**HS24030930-06**	**Outfall 003 LL Hg Field Blank**	**Water**	**18 Mar 2024 11:36**
	1631 LL Hg			01 Apr 2024
7.	**HS24030930-07**	**Outfall 004**	**Water**	**18 Mar 2024 11:31**
	1631 LL Hg			01 Apr 2024
	CN_W_Available			01 Apr 2024

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25075**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
8.	**HS24030930-08**	**Outfall 004 LL Hg Duplicate**	**Water**	**18 Mar 2024 11:31**
	1631 LL Hg			01 Apr 2024
9.	**HS24030930-09**	**Outfall 004 LL Hg Field Blank**	**Water**	**18 Mar 2024 11:31**
	1631 LL Hg			01 Apr 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: JC Date/Time: 3/20/24 1809

Received By: [illegible] Date/Time: 3/22/24 200

Cooler ID(s): Temperature(s): 4.0°C DF2

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ALS Holland Sample Receiving Checklist

Received by:	~~Alexis~~
Date/Time:	3/22/24 200
Carrier Name:	QS
Shipping container/cooler in good condition?	(Yes) / No / Not Present
Custody seals intact on shipping container/cooler?	Yes / No / (Not Present)
Custody seals intact on sample bottles?	Yes / No / (Not Present)
Chain of Custody present?	(Yes) / No
COC signed when relinquished and received?	(Yes) / No
COC agrees with sample labels?	(Yes) / No
Samples in proper container/bottle?	(Yes) / No
Sample containers intact?	(Yes) / No
Sufficient sample volume for indicated test?	(Yes) / No
All samples received within holding time?	(Yes) / No
Container/Temp Blank temperature in compliance?	(Yes) / No
Temperature(s) (°C):	4.0°C
Thermometer(s):	DF2
Sample(s) received on ice?	(Yes) / No
Matrix/Matrices:	Water
Cooler(s)/Kit(s):	
Date/Time sample(s) sent to storage:	3/22/24 1011
Water – VOA vials have zero headspace?	Yes / No / (No Vials)
Water – pH acceptable upon receipt?	(Yes) / No / N/A
pH strip lot #: 36	<2 ____ >12 √ Other ____
pH adjusted (note adjustments below)?	Yes / (No) / N/A
pH adjusted by:	

Login Notes:

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Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Holland Laboratory Certifications

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		1/1/2024	6/30/2024
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	6/28/2023	6/30/2024
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	7/6/2021	12/31/2023
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	7/6/2023	6/30/2024
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	6/5/2023	6/30/2024
New York	Drinking Water (Secondary)	12128	4/1/2023	4/1/2024
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/5/2023	6/30/2024
Pennsylvania	NELAP (Secondary)	68-03827	12/21/23	7/31/2024
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	8/25/2023	8/31/2024
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930		

Sample Name:	Outfall 002	**Date Collected:**	03/18/24
Laboratory Code:	HN2400929-001	**Date Received:**	03/22/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz
OIA 1677	1378804	Mike Burkall	2137936	Mike Burkall

Sample Name:	Outfall 002 LL Hg Duplicate	**Date Collected:**	03/18/24
Laboratory Code:	HN2400929-002	**Date Received:**	03/22/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

Sample Name:	Outfall 002 LL Hg Field Blank	**Date Collected:**	03/18/24
Laboratory Code:	HN2400929-003	**Date Received:**	03/22/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

Sample Name:	Outfall 003	**Date Collected:**	03/18/24
Laboratory Code:	HN2400929-004	**Date Received:**	03/22/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz
OIA 1677	1378804	Mike Burkall	2137936	Mike Burkall

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930		

Sample Name: Outfall 003 LL Hg Duplicate
Laboratory Code: HN2400929-005
Sample Matrix: WATER

Date Collected: 03/18/24
Date Received: 03/22/24

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

Sample Name: Outfall 003 LL Hg Field Blank
Laboratory Code: HN2400929-006
Sample Matrix: WATER

Date Collected: 03/18/24
Date Received: 03/22/24

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

Sample Name: Outfall 004
Laboratory Code: HN2400929-007
Sample Matrix: WATER

Date Collected: 03/18/24
Date Received: 03/22/24

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz
OIA 1677	1378804	Mike Burkall	2137936	Mike Burkall

Sample Name: Outfall 004 LL Hg Duplicate
Laboratory Code: HN2400929-008
Sample Matrix: WATER

Date Collected: 03/18/24
Date Received: 03/22/24

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930		

Sample Name:	Outfall 004 LL Hg Field Blank	**Date Collected:**	03/18/24
Laboratory Code:	HN2400929-009	**Date Received:**	03/22/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1376801	Kate Achatz	2135575	Kate Achatz

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Sample Results

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Metals

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:41
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00
Sample Name:	Outfall 002		
Laboratory Code:	HN2400929-001		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**9.38**	ng/L	0.500	1	03/25/24 12:05	03/22/24 15:35	

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:41
Date Received: 03/22/24 02:00

Sample Name: Outfall 002 LL Hg Duplicate
Laboratory Code: HN2400929-002

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**9.42**	ng/L	0.500	1	03/25/24 12:13	03/22/24 15:35	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:41
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00

Sample Name: Outfall 002 LL Hg Field Blank
Laboratory Code: HN2400929-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 12:28	03/22/24 15:35	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:36
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00

Sample Name: Outfall 003
Laboratory Code: HN2400929-004

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**7.78**	ng/L	0.500	1	03/25/24 12:36	03/22/24 15:35	

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:36
Date Received: 03/22/24 02:00

Sample Name: Outfall 003 LL Hg Duplicate
Laboratory Code: HN2400929-005

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**8.25**	ng/L	0.500	1	03/25/24 12:44	03/22/24 15:35	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:36
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00

Sample Name: Outfall 003 LL Hg Field Blank
Laboratory Code: HN2400929-006

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 12:52	03/22/24 15:35	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:31
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00

Sample Name: Outfall 004
Laboratory Code: HN2400929-007

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**5.35**	ng/L	0.500	1	03/25/24 12:59	03/22/24 15:35	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	03/18/24 11:31
Sample Matrix:	WATER	**Date Received:**	03/22/24 02:00

Sample Name: Outfall 004 LL Hg Duplicate
Laboratory Code: HN2400929-008

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**5.31**	ng/L	0.500	1	03/25/24 13:15	03/22/24 15:35	

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:31
Date Received: 03/22/24 02:00

Sample Name: Outfall 004 LL Hg Field Blank
Laboratory Code: HN2400929-009

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 13:23	03/22/24 15:35	

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General Chemistry

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:41
Date Received: 03/22/24 02:00

Sample Name: Outfall 002
Laboratory Code: HN2400929-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	03/28/24 00:00	03/26/24 09:38	

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:36
Date Received: 03/22/24 02:00

Sample Name: Outfall 003
Laboratory Code: HN2400929-004

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	03/28/24 00:00	03/26/24 09:38	

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/24 11:31
Date Received: 03/22/24 02:00

Sample Name: Outfall 004
Laboratory Code: HN2400929-007

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	03/28/24 00:00	03/26/24 09:38	

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QC Summary Forms

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Metals

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1376801-001

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 11:34	03/22/24 15:36	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1376801-002

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 12:20	03/22/24 15:36	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1376801-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 13:07	03/22/24 15:36	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2400929
Project:	HS24030930/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1376801-004

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	03/25/24 13:46	03/22/24 15:36	

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QA/QC Report

Client: ALS Environmental
Project: HS24030930
Sample Matrix: WATER

Work Order: HN2400929
Date Analyzed: 03/25/2024
Date Extracted: 03/22/2024

Laboratory Control Sample Summary
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2135575

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1376801-005	5.73	5	115	77-123

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QA/QC Report

Client: ALS Environmental
Project: HS24030930
Sample Matrix: WATER

Work Order: HN2400929
Date Analyzed: 03/25/2024
Date Extracted: 03/22/2024

Laboratory Control Sample Summary
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2135575

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1376801-006	5.49	5	110	77-123

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General Chemistry

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Analytical Report

Client: ALS Environmental
Project: HS24030930/
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Laboratory Code: QC-1378804-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	03/28/24 00:00	03/26/24 09:39	

RIGHT SOLUTIONS | RIGHT PARTNER

QA/QC Report

Client: ALS Environmental
Project: HS24030930
Sample Matrix: WATER

Work Order: HN2400929
Date Collected: 03/18/2024
Date Received: 03/22/2024
Date Analyzed: 03/28/2024
Date Extracted: 03/26/2024

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: Outfall 002
Laboratory Code: HN2400929-001
Analysis Method: OIA 1677
Prep Method: Method

Units: µg/L
Analysis Lab Lot: 2137936

		Matrix Spike				Duplicate Matrix Spike					
		QC-1378804-004				QC-1378804-005					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Available Cyanide	<2.00	50.7	50	101	52.6	50	104	82-130	3.69	11

RIGHT SOLUTIONS | RIGHT PARTNER

QA/QC Report

Client: ALS Environmental
Project: HS24030930
Sample Matrix: WATER

Work Order: HN2400929
Date Analyzed: 03/28/2024
Date Extracted: 03/26/2024

Laboratory Control Sample Summary
Available Cyanide

Analysis Method: OIA 1677
Prep Method: Method

Units: µg/L
Analysis Lab Lot: 2137936

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1378804-002	59.3	50	118	82-132

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

April 17, 2024

Quan Vu
Freeport LNG Development L.P.
1500 Lamar Street
Quintana, TX 77541

Work Order: **HS24031472**

Laboratory Results for: **Freeport LQF Permit**

Dear Quan Vu,

ALS Environmental received 12 sample(s) on Mar 26, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Andy C. Neir

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Work Order: HS24031472

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24031472-01	Outfall 002	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-02	Outfall 002 LL Hg Duplicate	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-03	Outfall 002 LL Hg Field Blank	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-04	Outfall 003	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-05	Outfall 003 LL Hg Duplicate	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-06	Outfall 003 LL Hg Field Blank	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-07	Outfall 004	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-08	Outfall 004 LL Hg Duplicate	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-09	Outfall 004 LL Hg Field Blank	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-10	CG-120823-442	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑
HS24031472-11	CG-120823-415	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑
HS24031472-12	CG-120823-418	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

Work Order Comments

• The analyses for Mercury and Cyanide, Available were subcontracted to ALS Environmental in Holland, MI. Final report attached.

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

Sample received outside method holding time for Dissolved Oxygen and Residual Chlorine. Dissolved Oxygen and Residual Chlorine are immediate tests. Sample results are flagged with an "H" qualifier.

GCMS Volatiles by Method E624

Batch ID: R462555

Sample ID: VLCSW-240328

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Metals by Method Calculation

Batch ID: R463184

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method E200.8

Batch ID: 209608

Sample ID: HS24031372-01MSD

• MSD is for an unrelated sample

Batch ID: 209676

Sample ID: Outfall 004 (HS24031472-07MSD)

• MS12 The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.Aluminum

WetChemistry by Method E300

Batch ID: R462287

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R462373

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540D

Batch ID: R462503

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

WetChemistry by Method SM5310B

Batch ID: R462667

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500CL F

Batch ID: R462911

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E410.4

Batch ID: R463394

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R463361,R463362

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E1664A

Batch ID: R462910

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R462546,R462812

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M3500-Cr B

Batch ID: R462420

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E120.1

Batch ID: R462336

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500-O G

Batch ID: R462244

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500 NH3 D

Batch ID: 210055

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

WetChemistry by Method SM4500 NH3-B-F

Batch ID: 210102

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: 209605

Sample ID: HS24031498-01MS

• MS and MSD are for an unrelated sample

WetChemistry by Method SM5210 B

Batch ID: 209484,209510

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:16
Surr: 1,2-Dichloroethane-d4	*113*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: 4-Bromofluorobenzene	*93.8*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: Dibromofluoromethane	*106*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: Toluene-d8	*98.0*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:16*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 28-Mar-2024		Analyst: JC
Aluminum	**0.137**		**0.0100**	**mg/L**	1	01-Apr-2024 22:07
Antimony	ND		0.00500	mg/L	1	01-Apr-2024 22:07
Arsenic	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Barium	**0.0324**		**0.00400**	**mg/L**	1	01-Apr-2024 22:07
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 22:07
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 22:07
Copper	**0.00794**		**0.00200**	**mg/L**	1	01-Apr-2024 22:07
Lead	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Nickel	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Silver	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Zinc	**0.162**		**0.00400**	**mg/L**	1	01-Apr-2024 22:07
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**322**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	**2.40**		**2.00**	**mg/L**	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**56.7**		**0.500**	**mg/L**	1	26-Mar-2024 14:32
Fluoride	**0.139**		**0.100**	**mg/L**	1	26-Mar-2024 14:32
Nitrogen, Nitrate (As N)	**1.09**		**0.100**	**mg/L**	1	26-Mar-2024 14:32
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:32
Sulfate	**13.8**		**0.500**	**mg/L**	1	26-Mar-2024 14:32
Nitrate/Nitrite (as N)	**1.16**		**0.200**	**mg/L**	1	26-Mar-2024 14:32
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**19.0**		**15.0**	**mg/L**	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**694**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**5.00**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**1.7**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**5.71**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**45.3**		**5.00**	**mg/L**	1	28-Mar-2024 13:21
Alkalinity, Total (As CaCO3)	**45.3**		**5.00**	**mg/L**	1	28-Mar-2024 13:21
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.28**		**0.050**	**mg/L**	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	ND	H	0.10	mg/L	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.54**	H	**0.100**	**pH Units**	1	08-Apr-2024 11:52
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**4.78**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**3.48**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**6.85**		**1.00**	**mg/L**	1	30-Mar-2024 04:02
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002 LL Hg Duplicate
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002 LL Hg Field Blank
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:37
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: 4-Bromofluorobenzene	*87.5*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: Dibromofluoromethane	*105*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: Toluene-d8	*95.3*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:37*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 28-Mar-2024		Analyst: JC
Aluminum	**0.595**		**0.0100**	**mg/L**	1	01-Apr-2024 22:08
Antimony	**0.00536**		**0.00500**	**mg/L**	1	01-Apr-2024 22:08
Arsenic	**0.00580**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Barium	**0.0740**		**0.00400**	**mg/L**	1	01-Apr-2024 22:08
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 22:08
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 22:08
Copper	**0.00356**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Lead	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Nickel	**0.00582**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Silver	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Zinc	**0.0893**		**0.00400**	**mg/L**	1	01-Apr-2024 22:08
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**2,550**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**613**		**5.00**	**mg/L**	10	26-Mar-2024 14:50
Fluoride	**0.414**		**0.100**	**mg/L**	1	26-Mar-2024 14:44
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:44
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:44
Sulfate	**83.3**		**0.500**	**mg/L**	1	26-Mar-2024 14:44
Nitrate/Nitrite (as N)	ND		0.200	mg/L	1	26-Mar-2024 14:44
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**21.0**		**15.0**	**mg/L**	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**1,250**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**188**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**0.76**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**8.03**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**197**		**5.00**	**mg/L**	1	28-Mar-2024 13:26
Alkalinity, Total (As CaCO3)	**202**		**5.00**	**mg/L**	1	28-Mar-2024 13:26
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	ND		0.050	mg/L	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	**0.30**	H	**0.10**	**mg/L**	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**8.04**	H	**0.100**	**pH Units**	1	08-Apr-2024 12:39
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**4.83**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**2.29**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**9.30**		**1.00**	**mg/L**	1	30-Mar-2024 04:48
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003 LL Hg Duplicate
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-05
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003 LL Hg Field Blank
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-06
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:58
Surr: 1,2-Dichloroethane-d4	*112*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: 4-Bromofluorobenzene	*91.1*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: Dibromofluoromethane	*108*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: Toluene-d8	*99.5*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:58*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 29-Mar-2024		Analyst: MSC
Aluminum	**0.320**		**0.0100**	**mg/L**	1	01-Apr-2024 15:36
Antimony	ND		0.00500	mg/L	1	01-Apr-2024 15:36
Arsenic	**0.00218**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Barium	**0.0918**		**0.00400**	**mg/L**	1	01-Apr-2024 15:36
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 15:36
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 15:36
Copper	**0.00512**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Lead	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Nickel	**0.00532**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Silver	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Zinc	**0.0502**		**0.00400**	**mg/L**	1	01-Apr-2024 15:36
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**2,980**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**767**		**5.00**	**mg/L**	10	26-Mar-2024 15:31
Fluoride	**0.185**		**0.100**	**mg/L**	1	26-Mar-2024 15:25
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	26-Mar-2024 15:25
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 15:25
Sulfate	**101**		**5.00**	**mg/L**	10	26-Mar-2024 15:31
Nitrate/Nitrite (as N)	ND		0.200	mg/L	1	26-Mar-2024 15:25
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	ND		15.0	mg/L	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**1,480**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**87.0**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**0.72**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**6.46**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**133**		**5.00**	**mg/L**	1	30-Mar-2024 14:25
Alkalinity, Total (As CaCO3)	**133**		**5.00**	**mg/L**	1	30-Mar-2024 14:25
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.097**		**0.050**	**mg/L**	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	ND	H	0.10	mg/L	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.86**	H	**0.100**	**pH Units**	1	08-Apr-2024 12:49
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**5.00**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**4.38**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**9.13**		**1.00**	**mg/L**	1	30-Mar-2024 05:04
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004 LL Hg Duplicate
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004 LL Hg Field Blank
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-09
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

Batch ID: 209484 **Start Date:** 27 Mar 2024 09:30 **End Date:** 27 Mar 2024 09:30
Method: WETCHEMPREP, BOD **Prep Code:** BOD_PR 5210B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209510 **Start Date:** 27 Mar 2024 14:00 **End Date:** 27 Mar 2024 14:00
Method: CBOD PREP **Prep Code:** CBOD_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209605 **Start Date:** 28 Mar 2024 11:23 **End Date:** 28 Mar 2024 11:23
Method: PHOSPHOROUS **Prep Code:** P_TW_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-04		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-07		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2

Batch ID: 209608 **Start Date:** 28 Mar 2024 14:30 **End Date:** 28 Mar 2024 14:30
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24031472-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 209676 **Start Date:** 29 Mar 2024 13:00 **End Date:** 29 Mar 2024 13:00
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 210055 **Start Date:** 05 Apr 2024 08:18 **End Date:** 05 Apr 2024 08:18
Method: TKN WATER - PREP **Prep Code:** TKN_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2
HS24031472-04		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2
HS24031472-07		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

Batch ID: 210102 **Start Date:** 08 Apr 2024 14:01 **End Date:** 08 Apr 2024 14:01
Method: NITROGEN AMMONIA - WATER - PREP **Prep Code:** NIT_AMM_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-04		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-07		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209484 (0)	**Test Name :** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		27 Mar 2024 09:30	01 Apr 2024 11:31	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		27 Mar 2024 09:30	01 Apr 2024 11:31	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		27 Mar 2024 09:30	01 Apr 2024 11:31	1
Batch ID: 209510 (0)	**Test Name :** CBOD BY SM5210B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		27 Mar 2024 14:00	01 Apr 2024 14:03	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		27 Mar 2024 14:00	01 Apr 2024 14:03	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		27 Mar 2024 14:00	01 Apr 2024 14:03	1
Batch ID: 209605 (0)	**Test Name :** PHOSPHORUS BY E365.3-1978				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		28 Mar 2024 11:23	28 Mar 2024 18:11	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		28 Mar 2024 11:23	28 Mar 2024 18:11	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		28 Mar 2024 11:23	28 Mar 2024 18:11	1
Batch ID: 209608 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		28 Mar 2024 14:30	01 Apr 2024 22:07	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		28 Mar 2024 14:30	01 Apr 2024 22:08	1
Batch ID: 209676 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24		29 Mar 2024 13:00	01 Apr 2024 15:36	1
Batch ID: 210055 (0)	**Test Name :** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		05 Apr 2024 08:18	05 Apr 2024 15:27	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		05 Apr 2024 08:18	05 Apr 2024 15:27	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		05 Apr 2024 08:18	05 Apr 2024 15:27	1
Batch ID: 210102 (0)	**Test Name :** AMMONIA AS N BY SM4500 NH3-B-F-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		08 Apr 2024 14:01	08 Apr 2024 15:50	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		08 Apr 2024 14:01	08 Apr 2024 15:50	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		08 Apr 2024 14:01	08 Apr 2024 15:50	1
Batch ID: R462244 (0)	**Test Name :** DISSOLVED OXYGEN BY SM4500-O G				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 15:26	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 15:26	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:26	1
Batch ID: R462287 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 14:32	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 14:50	10
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 14:44	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:31	10
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:25	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R462336 (0)	**Test Name :** SPECIFIC CONDUCTANCE BY E120.1, 1982				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			27 Mar 2024 14:44	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			27 Mar 2024 14:44	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			27 Mar 2024 14:44	1
Batch ID: R462373 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 09:07	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 09:07	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			28 Mar 2024 09:07	1
Batch ID: R462420 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SM3500-CR B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 11:51	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 11:51	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 11:51	1
Batch ID: R462503 (0)	**Test Name :** TOTAL SUSPENDED SOLIDS BY SM 2540D-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 13:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 13:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			28 Mar 2024 13:00	1
Batch ID: R462546 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 13:21	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 13:26	1
Batch ID: R462555 (0)	**Test Name :** VOLATILES				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			29 Mar 2024 01:16	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			29 Mar 2024 01:37	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			29 Mar 2024 01:58	1
Batch ID: R462667 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			30 Mar 2024 04:02	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			30 Mar 2024 04:48	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			30 Mar 2024 05:04	1
Batch ID: R462812 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24			30 Mar 2024 14:25	1
Batch ID: R462910 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			03 Apr 2024 07:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			03 Apr 2024 07:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			03 Apr 2024 07:00	1
Batch ID: R462911 (0)	**Test Name :** RESIDUAL CHLORINE BY SM4500CL F-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			03 Apr 2024 10:45	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			03 Apr 2024 10:45	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			03 Apr 2024 10:45	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R463184 (0)	**Test Name :** TRIVALENT CHROMIUM				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			05 Apr 2024 12:56	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			05 Apr 2024 12:56	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			05 Apr 2024 12:56	1
Batch ID: R463361 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			08 Apr 2024 11:52	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			08 Apr 2024 12:39	1
Batch ID: R463362 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24			08 Apr 2024 12:49	1
Batch ID: R463394 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			08 Apr 2024 16:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			08 Apr 2024 16:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			08 Apr 2024 16:00	1
Batch ID: R463528 (0)	**Test Name :** AVAILABLE CYANIDE BY EPA OIA-1677				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-01	Outfall 002	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-02	Outfall 002 LL Hg Duplicate	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-03	Outfall 002 LL Hg Field Blank	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-05	Outfall 003 LL Hg Duplicate	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-06	Outfall 003 LL Hg Field Blank	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-08	Outfall 004 LL Hg Duplicate	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-09	Outfall 004 LL Hg Field Blank	26 Mar 2024 08:24			10 Apr 2024 09:25	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-209608** Units: **ug/L** Analysis Date: **01-Apr-2024 21:35**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920399** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	ND	10.0							
Antimony	ND	5.00							
Arsenic	ND	2.00							
Barium	ND	4.00							
Beryllium	ND	5.00							
Cadmium	ND	2.00							
Chromium	ND	4.00							
Copper	ND	2.00							
Lead	ND	2.00							
Nickel	ND	2.00							
Selenium	ND	2.00							
Silver	ND	2.00							
Thallium	ND	2.00							
Zinc	ND	4.00							

LCS Sample ID: **LCS-209608** Units: **ug/L** Analysis Date: **01-Apr-2024 21:37**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920400** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	110	10.0	100	0	110	85 - 115			
Antimony	49.55	5.00	50	0	99.1	85 - 115			
Arsenic	48.39	2.00	50	0	96.8	85 - 115			
Barium	48.24	4.00	50	0	96.5	85 - 115			
Beryllium	47.22	5.00	50	0	94.4	85 - 115			
Cadmium	47.59	2.00	50	0	95.2	85 - 115			
Chromium	48.53	4.00	50	0	97.1	85 - 115			
Copper	49.32	2.00	50	0	98.6	85 - 115			
Lead	47.33	2.00	50	0	94.7	85 - 115			
Nickel	49.16	2.00	50	0	98.3	85 - 115			
Selenium	46.42	2.00	50	0	92.8	85 - 115			
Silver	48.89	2.00	50	0	97.8	85 - 115			
Zinc	49.86	4.00	50	0	99.7	85 - 115			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

LCS Sample ID: **LCS-209608** Units: **ug/L** Analysis Date: **02-Apr-2024 11:53**
Client ID: Run ID: **ICPMS06_462809** SeqNo: **7921516** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	48.37	2.00	50	0	96.7	85 - 115				

MS Sample ID: **HS24031372-02MS** Units: **ug/L** Analysis Date: **01-Apr-2024 21:47**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920405** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	291.8	10.0	100	201.8	90.0	70 - 130				
Antimony	46.96	5.00	50	0.139	93.6	70 - 130				
Arsenic	46.18	2.00	50	1.429	89.5	70 - 130				
Barium	340.1	4.00	50	290.1	100	70 - 130				O
Beryllium	44.92	5.00	50	0.354	89.1	70 - 130				
Cadmium	46.73	2.00	50	0.824	91.8	70 - 130				
Chromium	46.62	4.00	50	2.282	88.7	70 - 130				
Copper	47.76	2.00	50	2.795	89.9	70 - 130				
Lead	47.9	2.00	50	1.391	93.0	70 - 130				
Nickel	45.76	2.00	50	0.876	89.8	70 - 130				
Selenium	45.08	2.00	50	0.836	88.5	70 - 130				
Silver	46.58	2.00	50	0.029	93.1	70 - 130				
Thallium	40.47	2.00	50	0.542	79.9	70 - 130				
Zinc	66.95	4.00	50	22.46	89.0	70 - 130				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS24031372-01MS** Units: **ug/L** Analysis Date: **01-Apr-2024 21:41**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920402** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	359.1	10.0	100	244.9	114	70 - 130				
Antimony	47.98	5.00	50	0.159	95.6	70 - 130				
Arsenic	46.78	2.00	50	1.47	90.6	70 - 130				
Barium	397.2	4.00	50	332.2	130	70 - 130				O
Beryllium	46.3	5.00	50	0.31	92.0	70 - 130				
Cadmium	45.3	2.00	50	0.155	90.3	70 - 130				
Chromium	48.22	4.00	50	2.082	92.3	70 - 130				
Copper	49.5	2.00	50	2.18	94.6	70 - 130				
Lead	49.21	2.00	50	2.575	93.3	70 - 130				
Nickel	45.92	2.00	50	1.065	89.7	70 - 130				
Selenium	45.08	2.00	50	-0.324	90.8	70 - 130				
Silver	46.5	2.00	50	0.031	92.9	70 - 130				
Thallium	40.2	2.00	50	0.615	79.2	70 - 130				
Zinc	77.36	4.00	50	33.23	88.2	70 - 130				

MSD Sample ID: **HS24031372-02MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 21:49**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920406** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	297.6	10.0	100	201.8	95.8	70 - 130	291.8	1.98	20	
Antimony	47.18	5.00	50	0.139	94.1	70 - 130	46.96	0.455	20	
Arsenic	47.04	2.00	50	1.429	91.2	70 - 130	46.18	1.84	20	
Barium	334.7	4.00	50	290.1	89.2	70 - 130	340.1	1.62	20	O
Beryllium	46.03	5.00	50	0.354	91.4	70 - 130	44.92	2.44	20	
Cadmium	47.2	2.00	50	0.824	92.8	70 - 130	46.73	1	20	
Chromium	47.49	4.00	50	2.282	90.4	70 - 130	46.62	1.84	20	
Copper	49.32	2.00	50	2.795	93.0	70 - 130	47.76	3.22	20	
Lead	47.68	2.00	50	1.391	92.6	70 - 130	47.9	0.452	20	
Nickel	47.32	2.00	50	0.876	92.9	70 - 130	45.76	3.35	20	
Selenium	43.83	2.00	50	0.836	86.0	70 - 130	45.08	2.81	20	
Silver	47.42	2.00	50	0.029	94.8	70 - 130	46.58	1.8	20	
Thallium	40.99	2.00	50	0.542	80.9	70 - 130	40.47	1.28	20	
Zinc	66.61	4.00	50	22.46	88.3	70 - 130	66.95	0.514	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS24031372-01MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 21:43**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920403** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	361.2	10.0	100	244.9	116	70 - 130	359.1	0.565	20	
Antimony	46.4	5.00	50	0.159	92.5	70 - 130	47.98	3.35	20	
Arsenic	46.45	2.00	50	1.47	90.0	70 - 130	46.78	0.693	20	
Barium	400.3	4.00	50	332.2	136	70 - 130	397.2	0.771	20	SO
Beryllium	46.07	5.00	50	0.31	91.5	70 - 130	46.3	0.502	20	
Cadmium	45.8	2.00	50	0.155	91.3	70 - 130	45.3	1.09	20	
Chromium	47.57	4.00	50	2.082	91.0	70 - 130	48.22	1.37	20	
Copper	49.31	2.00	50	2.18	94.3	70 - 130	49.5	0.372	20	
Lead	49.28	2.00	50	2.575	93.4	70 - 130	49.21	0.14	20	
Nickel	47.04	2.00	50	1.065	91.9	70 - 130	45.92	2.41	20	
Selenium	46.7	2.00	50	-0.324	94.0	70 - 130	45.08	3.54	20	
Silver	47.25	2.00	50	0.031	94.4	70 - 130	46.5	1.6	20	
Thallium	40.65	2.00	50	0.615	80.1	70 - 130	40.2	1.13	20	
Zinc	77.43	4.00	50	33.23	88.4	70 - 130	77.36	0.093	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 15:32**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919855** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	10.0								
Antimony	ND	5.00								
Arsenic	ND	2.00								
Barium	ND	4.00								
Beryllium	ND	5.00								
Cadmium	ND	2.00								
Chromium	ND	4.00								
Copper	ND	2.00								
Lead	ND	2.00								
Nickel	ND	2.00								
Selenium	ND	2.00								
Silver	ND	2.00								
Thallium	ND	2.00								
Zinc	ND	4.00								

LCS Sample ID: **LCS-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 17:56**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7920202** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	113.2	10.0	100	0	113	85 - 115				
Zinc	55.5	4.00	50	0	111	85 - 115				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

LCS Sample ID: **LCS-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 15:34**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919856** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	46.56	5.00	50	0	93.1	85 - 115				
Arsenic	48.52	2.00	50	0	97.0	85 - 115				
Barium	51.07	4.00	50	0	102	85 - 115				
Beryllium	46.88	5.00	50	0	93.8	85 - 115				
Cadmium	50.78	2.00	50	0	102	85 - 115				
Chromium	45.98	4.00	50	0	92.0	85 - 115				
Copper	50	2.00	50	0	100	85 - 115				
Lead	50.95	2.00	50	0	102	85 - 115				
Nickel	50.23	2.00	50	0	100	85 - 115				
Selenium	47.71	2.00	50	0	95.4	85 - 115				
Silver	47.85	2.00	50	0	95.7	85 - 115				
Thallium	48.33	2.00	50	0	96.7	85 - 115				

MS Sample ID: **HS24031629-02MS** Units: **ug/L** Analysis Date: **01-Apr-2024 15:46**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919861** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	641.7	10.0	100	536.8	105	70 - 130				O
Antimony	48.24	5.00	50	2.071	92.3	70 - 130				
Arsenic	54.14	2.00	50	3.474	101	70 - 130				
Barium	56.98	4.00	50	4.646	105	70 - 130				
Beryllium	50.26	5.00	50	-0.012	101	70 - 130				
Cadmium	50.39	2.00	50	-0.054	101	70 - 130				
Chromium	46.76	4.00	50	0.433	92.6	70 - 130				
Copper	48.71	2.00	50	0.62	96.2	70 - 130				
Lead	53.08	2.00	50	0.027	106	70 - 130				
Nickel	54.19	2.00	50	4.355	99.7	70 - 130				
Selenium	49.9	2.00	50	0.292	99.2	70 - 130				
Silver	46.01	2.00	50	0.139	91.7	70 - 130				
Thallium	49.56	2.00	50	-0.262	99.6	70 - 130				
Zinc	58.72	4.00	50	9.067	99.3	70 - 130				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS24031472-07MS** Units: **ug/L** Analysis Date: **01-Apr-2024 15:39**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7919858** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	435.8	10.0	100	319.5	116	70 - 130				
Antimony	43.43	5.00	50	0.706	85.5	70 - 130				
Arsenic	47.61	2.00	50	2.178	90.9	70 - 130				
Barium	136.2	4.00	50	91.84	88.8	70 - 130				
Beryllium	47.9	5.00	50	0.015	95.8	70 - 130				
Cadmium	47.23	2.00	50	-0.003	94.5	70 - 130				
Chromium	43.02	4.00	50	1.183	83.7	70 - 130				
Copper	48.94	2.00	50	5.117	87.7	70 - 130				
Lead	48.94	2.00	50	0.808	96.3	70 - 130				
Nickel	50.07	2.00	50	5.316	89.5	70 - 130				
Selenium	45.85	2.00	50	0.996	89.7	70 - 130				
Silver	43.18	2.00	50	-0.041	86.4	70 - 130				
Thallium	45.89	2.00	50	-0.273	92.3	70 - 130				
Zinc	91.53	4.00	50	50.19	82.7	70 - 130				

MSD Sample ID: **HS24031629-02MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 15:48**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919862** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	625.8	10.0	100	536.8	89.1	70 - 130	641.7	2.51	20	O
Antimony	47.76	5.00	50	2.071	91.4	70 - 130	48.24	1	20	
Arsenic	52.11	2.00	50	3.474	97.3	70 - 130	54.14	3.82	20	
Barium	57.03	4.00	50	4.646	105	70 - 130	56.98	0.0824	20	
Beryllium	50.6	5.00	50	-0.012	101	70 - 130	50.26	0.668	20	
Cadmium	50.53	2.00	50	-0.054	101	70 - 130	50.39	0.274	20	
Chromium	45.73	4.00	50	0.433	90.6	70 - 130	46.76	2.23	20	
Copper	47.94	2.00	50	0.62	94.6	70 - 130	48.71	1.59	20	
Lead	53.06	2.00	50	0.027	106	70 - 130	53.08	0.032	20	
Nickel	52.19	2.00	50	4.355	95.7	70 - 130	54.19	3.76	20	
Selenium	48.2	2.00	50	0.292	95.8	70 - 130	49.9	3.48	20	
Silver	46.07	2.00	50	0.139	91.9	70 - 130	46.01	0.128	20	
Thallium	48.74	2.00	50	-0.262	98.0	70 - 130	49.56	1.65	20	
Zinc	57.36	4.00	50	9.067	96.6	70 - 130	58.72	2.35	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS24031472-07MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 17:53**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7920201** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	482.6	10.0	100	319.5	163	70 - 130	435.8	10.2	20	S

MSD Sample ID: **HS24031472-07MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 15:41**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7919859** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	46.49	5.00	50	0.706	91.6	70 - 130	43.43	6.81	20	
Arsenic	51.18	2.00	50	2.178	98.0	70 - 130	47.61	7.23	20	
Barium	147.4	4.00	50	91.84	111	70 - 130	136.2	7.88	20	
Beryllium	50.66	5.00	50	0.015	101	70 - 130	47.9	5.61	20	
Cadmium	50.5	2.00	50	-0.003	101	70 - 130	47.23	6.7	20	
Chromium	48.42	4.00	50	1.183	94.5	70 - 130	43.02	11.8	20	
Copper	52.69	2.00	50	5.117	95.1	70 - 130	48.94	7.37	20	
Lead	52.49	2.00	50	0.808	103	70 - 130	48.94	7	20	
Nickel	54.09	2.00	50	5.316	97.6	70 - 130	50.07	7.72	20	
Selenium	49.26	2.00	50	0.996	96.5	70 - 130	45.85	7.16	20	
Silver	45.44	2.00	50	-0.041	91.0	70 - 130	43.18	5.1	20	
Thallium	48.55	2.00	50	-0.273	97.7	70 - 130	45.89	5.65	20	
Zinc	99.32	4.00	50	50.19	98.3	70 - 130	91.53	8.17	20	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462555 (0) **Instrument: VOA10** **Method: VOLATILES**

MBLK Sample ID: **VBLKW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 22:07**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915683** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.00								
Ethylbenzene	ND	5.00								
Toluene	ND	5.00								
Xylenes, Total	ND	5.00								
Surr: 1,2-Dichloroethane-d4	*54.06*	*5.00*	*50*	*0*	*108*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*45.45*	*5.00*	*50*	*0*	*90.9*	*82 - 124*				
Surr: Dibromofluoromethane	*54.82*	*5.00*	*50*	*0*	*110*	*77 - 123*				
Surr: Toluene-d8	*48.26*	*5.00*	*50*	*0*	*96.5*	*82 - 127*				

LCS Sample ID: **VLCSW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 21:04**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.54	5.00	20	0	97.7	74 - 120				
Ethylbenzene	19.64	5.00	20	0	98.2	77 - 117				
Toluene	19.39	5.00	20	0	96.9	77 - 118				
Xylenes, Total	59.27	5.00	60	0	98.8	75 - 122				
Surr: 1,2-Dichloroethane-d4	*53.69*	*5.00*	*50*	*0*	*107*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*45.68*	*5.00*	*50*	*0*	*91.4*	*83 - 122*				
Surr: Dibromofluoromethane	*52.07*	*5.00*	*50*	*0*	*104*	*73 - 126*				
Surr: Toluene-d8	*47.84*	*5.00*	*50*	*0*	*95.7*	*81 - 119*				

LCSD Sample ID: **VLCSDW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 21:25**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915682** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.83	5.00	20	0	94.2	74 - 120	19.54	3.68	20	
Ethylbenzene	19.03	5.00	20	0	95.2	77 - 117	19.64	3.12	20	
Toluene	18.88	5.00	20	0	94.4	77 - 118	19.39	2.64	20	
Xylenes, Total	55.67	5.00	60	0	92.8	75 - 122	59.27	6.28	20	
Surr: 1,2-Dichloroethane-d4	*55.26*	*5.00*	*50*	*0*	*111*	*70 - 130*	*53.69*	*2.87*	*20*	
Surr: 4-Bromofluorobenzene	*47.98*	*5.00*	*50*	*0*	*96.0*	*83 - 122*	*45.68*	*4.92*	*20*	
Surr: Dibromofluoromethane	*52.98*	*5.00*	*50*	*0*	*106*	*73 - 126*	*52.07*	*1.73*	*20*	
Surr: Toluene-d8	*48.84*	*5.00*	*50*	*0*	*97.7*	*81 - 119*	*47.84*	*2.07*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Freeport LNG Development L.P.
Project:	Freeport LQF Permit
WorkOrder:	HS24031472

QC BATCH REPORT

Batch ID:	**R462555 (0)**	**Instrument:**	**VOA10**	**Method:**	**VOLATILES**

The following samples were analyzed in this batch:	HS24031472-01	HS24031472-04	HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209484 (0) **Instrument: Skalar 02** **Method: BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011**

MBLK Sample ID: **MBLK-209484** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: Run ID: **Skalar 02_462730** SeqNo: **7919333** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209484** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: Run ID: **Skalar 02_462730** SeqNo: **7919332** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	181.6	2.00	198	0	91.7	85 - 115				

DUP Sample ID: **HS24031472-01DUP** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: **Outfall 002** Run ID: **Skalar 02_462730** SeqNo: **7919331** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	4.56	2.00					4.78	4.71	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209510 (0) **Instrument: Skalar 02** **Method: CBOD BY SM5210B-2011**

MBLK Sample ID: **MBLK-209510** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919984** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209510** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919983** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	183.4	2.00	198	0	92.6	85 - 115				

DUP Sample ID: **HS24031468-01DUP** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919982** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	3.97	2.00					4.24	6.58	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209605 (0) **Instrument: UV-2450** **Method: PHOSPHORUS BY E365.3-1978**

MBLK Sample ID: **MBLK-209605** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914580** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	ND	0.153								

LCS Sample ID: **LCS-209605** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914579** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.7969	0.153	0.766	0	104	80 - 120				

MS Sample ID: **HS24031498-01MS** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914577** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.7754	0.153	0.766	-0.1532	121	80 - 120				S

MSD Sample ID: **HS24031498-01MSD** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914578** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.8092	0.153	0.766	-0.1532	126	80 - 120	0.7754	4.26	20	S

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210055 (0) **Instrument: WetChem_HS** **Method: TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011**

MBLK Sample ID: **MBLK-210055** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931367** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-210055** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931366** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.63	0.50	20	0	108	85 - 115				

MS Sample ID: **HS24040094-01MS** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931364** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	19.12	0.50	20	0.42	93.5	75 - 125				

MSD Sample ID: **HS24040094-01MSD** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931365** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	19.38	0.50	20	0.42	94.8	75 - 125	19.12	1.35	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210102 (0) **Instrument: UV-2450** **Method: AMMONIA AS N BY SM4500 NH3-B-F-2011**

MBLK Sample ID: **MBLK-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934373** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	ND	0.050								

LCS Sample ID: **LCS-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934370** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.518	0.050	0.5	0	104	85 - 115				

LCSD Sample ID: **LCSD-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934371** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.518	0.050	0.5	0	104	85 - 115	0.518	0	20	

MS Sample ID: **HS24040069-03MS** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934368** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.608	0.050	0.5	0.168	88.0	80 - 120				

MS Sample ID: **HS24031754-04MS** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934366** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.483	0.050	0.5	0.062	84.2	80 - 120				

MSD Sample ID: **HS24040069-03MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934369** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.609	0.050	0.5	0.168	88.2	80 - 120	0.608	0.164	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210102 (0) **Instrument: UV-2450** **Method: AMMONIA AS N BY SM4500 NH3-B-F-2011**

MSD Sample ID: **HS24031754-04MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934367** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.483	0.050	0.5	0.062	84.2	80 - 120	0.483	0	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: **R462244 (0)** **Instrument:** **Skalar 02** **Method:** **DISSOLVED OXYGEN BY SM4500-O G**

DUP Sample ID: **HS24031472-01DUP** Units: **mg/L** Analysis Date: **26-Mar-2024 15:26**
Client ID: **Outfall 002** Run ID: **Skalar 02_462244** SeqNo: **7908554** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxygen, Dissolved	5.56	1.00					5.71	2.66	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462287 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **26-Mar-2024 10:54**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.500								
Fluoride	ND	0.100								
Nitrogen, Nitrate (As N)	ND	0.100								
Nitrogen, Nitrite (As N)	ND	0.100								
Nitrate/Nitrite (as N)	ND	0.200								
Sulfate	ND	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:00**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909830** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.96	0.500	20	0	105	90 - 110				
Fluoride	4.182	0.100	4	0	105	90 - 110				
Nitrogen, Nitrate (As N)	4.077	0.100	4	0	102	90 - 110				
Nitrogen, Nitrite (As N)	4.205	0.100	4	0	105	90 - 110				
Nitrate/Nitrite (as N)	8.282	0.200	8	0	104	90 - 110				
Sulfate	21.04	0.500	20	0	105	90 - 110				

MS Sample ID: **HS24031429-03MS** Units: **mg/L** Analysis Date: **26-Mar-2024 13:40**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909849** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189.3	2.50	50	141	96.6	80 - 120				
Fluoride	8.616	0.500	10	0	86.2	80 - 120				
Nitrogen, Nitrate (As N)	10.07	0.500	10	0.5855	94.8	80 - 120				
Nitrogen, Nitrite (As N)	9.652	0.500	10	0.175	94.8	80 - 120				
Nitrate/Nitrite (as N)	19.72	1.00	20	0.7605	94.8	80 - 120				
Sulfate	215.6	2.50	50	166.7	97.7	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462287 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MS Sample ID: **HS24031405-01MS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:18**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909832** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8330	50.0	1000	7525	80.5	80 - 120				O
Fluoride	199.1	10.0	200	0	99.5	80 - 120				
Nitrogen, Nitrate (As N)	201.4	10.0	200	7.08	97.2	80 - 120				
Nitrogen, Nitrite (As N)	193	10.0	200	1.26	95.9	80 - 120				
Nitrate/Nitrite (as N)	394.4	20.0	400	7.08	96.8	80 - 120				
Sulfate	1554	50.0	1000	542.9	101	80 - 120				

MSD Sample ID: **HS24031429-03MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 13:46**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909850** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	188.7	2.50	50	141	95.4	80 - 120	189.3	0.309	20	
Fluoride	8.408	0.500	10	0	84.1	80 - 120	8.616	2.46	20	
Nitrogen, Nitrate (As N)	10.02	0.500	10	0.5855	94.3	80 - 120	10.07	0.478	20	
Nitrogen, Nitrite (As N)	9.602	0.500	10	0.175	94.3	80 - 120	9.652	0.525	20	
Nitrate/Nitrite (as N)	19.62	1.00	20	0.7605	94.3	80 - 120	19.72	0.501	20	
Sulfate	215.8	2.50	50	166.7	98.2	80 - 120	215.6	0.115	20	

MSD Sample ID: **HS24031405-01MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 11:24**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909833** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8346	50.0	1000	7525	82.1	80 - 120	8330	0.192	20	O
Fluoride	195.1	10.0	200	0	97.5	80 - 120	199.1	2.03	20	
Nitrogen, Nitrate (As N)	202	10.0	200	7.08	97.4	80 - 120	201.4	0.283	20	
Nitrogen, Nitrite (As N)	193.5	10.0	200	1.26	96.1	80 - 120	193	0.269	20	
Nitrate/Nitrite (as N)	395.5	20.0	400	7.08	97.1	80 - 120	394.4	0.276	20	
Sulfate	1563	50.0	1000	542.9	102	80 - 120	1554	0.601	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462336 (0) **Instrument: WetChem_HS** **Method: SPECIFIC CONDUCTANCE BY E120.1, 1982**

MBLK Sample ID: **MBLK-R462336** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910902** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	ND	5.00								

LCS Sample ID: **LCS-R462336** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910901** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	1275	5.00	1413	0	90.2	80 - 120				

DUP Sample ID: **HS24031429-04DUP** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	2205	5.00					2201	0.182	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462373 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WMBLK-03272024** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: Run ID: **Balance1_462373** SeqNo: **7912078** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	ND	10.0								

LCS Sample ID: **WLCS-03272024** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: Run ID: **Balance1_462373** SeqNo: **7912077** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1016	10.0	1000	0	102	85 - 115				

DUP Sample ID: **HS24031472-07DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: **Outfall 004** Run ID: **Balance1_462373** SeqNo: **7912071** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1516	10.0					1476	2.67	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462420 (0) **Instrument: UV-2450** **Method: HEXAVALENT CHROMIUM BY SM3500-CR B-2011**

MBLK Sample ID: **MBLK-R462420** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912893** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.0200								

LCS Sample ID: **LCS-R462420** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912892** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.243	0.0200	0.25	0	97.2	80 - 120				

MS Sample ID: **HS24031380-01MS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912899** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.9	1.00	12.5	0	87.2	75 - 125				

MSD Sample ID: **HS24031380-01MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912898** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.9	1.00	12.5	0	87.2	75 - 125	10.9	0	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462503 (0) **Instrument:** Balance1 **Method:** TOTAL SUSPENDED SOLIDS BY SM 2540D-2011

MBLK Sample ID: **WMBLK-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914338** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	ND	2.50								

LCS Sample ID: **WLCS-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914337** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	98	2.50	100	0	98.0	85 - 115				

DUP Sample ID: **HS24031554-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914331** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	34.89	2.50					31.56	10	20	

DUP Sample ID: **HS24031501-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914327** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	40.8	2.50					39.6	2.99	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462546 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **28-Mar-2024 10:57**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915486** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00								
Alkalinity, Carbonate (As CaCO3)	ND	5.00								
Alkalinity, Hydroxide (As CaCO3)	ND	5.00								
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 11:03**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915487** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	919	5.00	1000	0	91.9	85 - 115				
Alkalinity, Total (As CaCO3)	929.9	5.00	1000	0	93.0	85 - 115				

LCSD Sample ID: **LCSD-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 18:28**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915507** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	877.8	5.00	1000	0	87.8	85 - 115	919	4.59	20	
Alkalinity, Total (As CaCO3)	934.9	5.00	1000	0	93.5	85 - 115	929.9	0.536	20	

DUP Sample ID: **HS24031498-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 11:24**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915490** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	41.4	5.00					41.1	0.727	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	41.4	5.00					41.1	0.727	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462667 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 01:45**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917853** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	1.00								

LCS Sample ID: **LCS-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 02:01**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917854** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.03	1.00	10	0	100	85 - 115				

LCSD Sample ID: **LCSD-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 02:17**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917855** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.3	1.00	10	0	103	85 - 115	10.03	2.66	20	

MS Sample ID: **HS24031523-01MS** Units: **mg/L** Analysis Date: **30-Mar-2024 03:04**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917858** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	12.26	1.00	10	2.583	96.8	80 - 120				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462812 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:37**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921369** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00								
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:43**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921370** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	979.5	5.00	1000	0	98.0	85 - 115				

LCSD Sample ID: **LCSD-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:50**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921371** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	980.2	5.00	1000	0	98.0	85 - 115	979.5	0.0714	20	

DUP Sample ID: **HS24031722-02DUP** Units: **mg/L** Analysis Date: **30-Mar-2024 14:06**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921374** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	163.1	5.00					162.7	0.246	20	
Alkalinity, Total (As CaCO3)	163.1	5.00					162.7	0.246	20	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462910 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923958** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	ND	2.00								

LCS Sample ID: **LCS-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923956** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.5	2.00	40	0	111	78 - 114				

LCSD Sample ID: **LCSD-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923957** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.7	2.00	40	0	109	78 - 114	44.5	1.81	18	

MS Sample ID: **HS24031525-02MS** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923941** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	41.7	2.00	40	1.026	102	78 - 114				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462911 (0) **Instrument:** WetChem_HS **Method:** RESIDUAL CHLORINE BY SM4500CL F-2011

MBLK Sample ID: **MBLK-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923884** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	ND	0.10								

LCS Sample ID: **LCS-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923883** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	85 - 115				

LCSD Sample ID: **LCSD-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	85 - 115	3.1	0	20	

MS Sample ID: **HS24031472-01MS** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: **Outfall 002** Run ID: **WetChem_HS_462911** SeqNo: **7923885** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	80 - 120				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463361 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS24031448-09DUP** Units: **pH Units** Analysis Date: **08-Apr-2024 12:28**
Client ID: Run ID: **Skalar 03_463361** SeqNo: **7933733** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.14	0.100					8.13	0.123	10	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463362 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS24031672-04DUP** Units: **pH Units** Analysis Date: **08-Apr-2024 13:33**
Client ID: Run ID: **Skalar 03_463362** SeqNo: **7933765** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.91	0.100					7.9	0.127	10	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463394 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R463394** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934451** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	ND	15.0								

LCS Sample ID: **LCS-R463394** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934450** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS24031444-01MS** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934453** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	59	15.0	50	11	96.0	80 - 120				

MSD Sample ID: **HS24031444-01MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934452** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	58	15.0	50	11	94.0	80 - 120	59	1.71	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: **HS24031472**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter
pH units	
UG/L	Micrograms per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS24031472 **Date/Time Received:** **26-Mar-2024 11:43**

Client Name: Freeport LNG **Received by:** **Si Ma**

Completed By: */S/ Jacob Coronado* 26-Mar-2024 13:18 **Reviewed by:** _____ _____

eSignature Date/Time eSignature Date/Time

Matrices: **w** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:310352, 310358
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	4.0uc/3.9c, 4.8uc/4.7c, 0.4uc/0.3c	ir31
Cooler(s)/Kit(s):	51123, 51441, 51051	
Date/Time sample(s) sent to storage:	03/26/2024 1320	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Trip Blank received not listed on COC, placed on hold

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600
Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

COC ID: 310352

HS24031472

Freeport LNG Development L.P.
Freeport LQF Permit

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Need 4100211711	Project Name	Freeport LQF Permit MES 3/26/24	A	624_Wdump (624 (BETX))
Work Order		Project Number		B	200.8 (Permit list) / Cr3 Trivalent Chrom
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.	C	300_W/ Alk/ CL-RS/ Cond/ TDS/ pH/ Cr6
Send Report To	Mary Ellen	Invoice Attn	Accounts Payable	D	BOD 5210B (BOD)/ TSS
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050	E	CBOD (CBOD)
				F	DISS_O 4500-O G (DO)
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002	G	NIT_AMMON_W / COD/ Total Phos
Phone	(979) 415-8754	Phone		H	O&G_1664_W_HS (Oil & Grease (1664))
Fax		Fax		I	TKN_W 4500NH3 D (TKN)
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com	J	TOC_W 5310B (TOC)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/26/24	07:20	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	Outfall 003	3/26/24	08:32	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	Outfall 004	3/26/24	08:24	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: MARISSA WOOLSEY

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hr [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	03.26.24	11:43	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			SM 03/26/24 11:43
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp.
	4.1 C
S1173	4.0
S1441	4.8
S1051	0.4

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

PRM 3/

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+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 310358

HS24031472

Freeport LNG Development L.P.

Freeport LQF Permit

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Need 4100211711	Project Name	~~Freeport PTF~~ LQF Permit MES 3/26/24	A	CN_W_Available (SUb to Holland)
Work Order		Project Number		B	Sub_MercuryLow (1631 LL Hg)(Sub to Holland))
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.	C	
Send Report To	Mary Ellen Ballinger	Invoice Attn	Accounts Payable	D	
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050	E F	
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002	G	
Phone	(979) 415-8754	Phone		H	
Fax		Fax		I	
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/26/24	07:20	Water	4	13	✓	✓									
2	Outfall 003	3/26/24	08:32	Water	4	13	✓	✓									
3	Outfall 004	3/26/24	08:24	Water	4	13	✓	✓									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Marissa Woosley

Shipment Method:

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

	Date:	Time:	Received by:
Relinquished by:	03.26.24	11:43	
Relinquished by:	Date:	Time:	Received by (Laboratory): SM 03/26/24 11:43
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

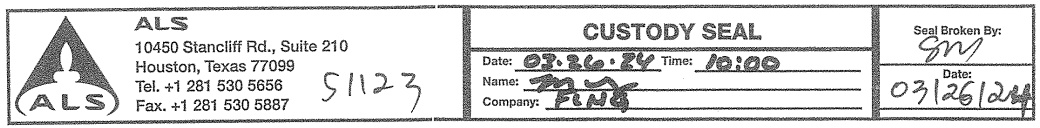
- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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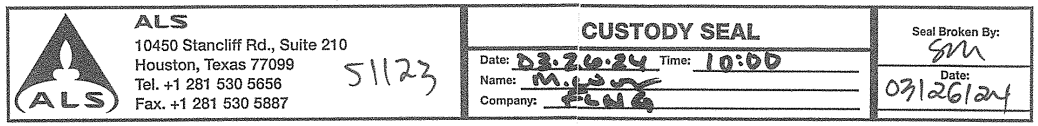
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51123

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51123 MAR 26 2024

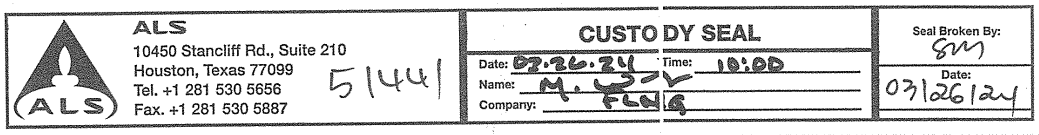


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10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51123

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24



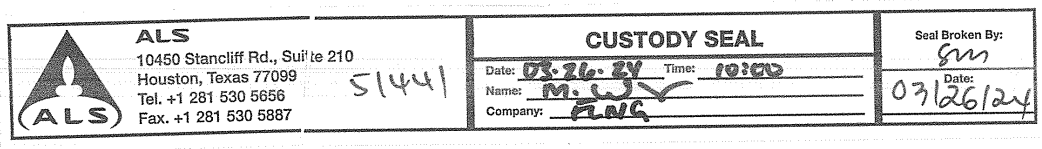
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51141

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51141 MAR 26 2024

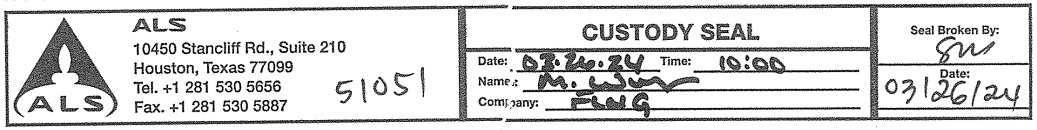


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10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51141

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24



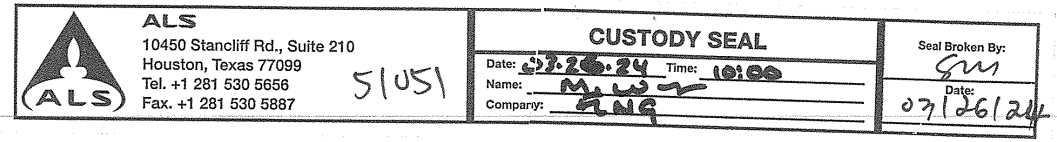
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51051

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51051 MAR 26 2024



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Houston, Texas 77099
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Fax. +1 281 530 5887

51051

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

RIGHT SOLUTIONS | RIGHT PARTNER

April 09, 2024

Andrew Neir
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Work Order: **HN2401013**

Re: **HS24031472**

Dear Andrew,
Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Chelsey Cook
/S/ CHELSEY COOK

Project Manager

Narrative Documents

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Client: ALS Environmental **Work Order:** HN2401013
Project: HS24031472 **Date Received:** 28-Mar-2024
Sample Matrix: Water

CASE NARRATIVE

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 28-Mar-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Inorganics:

No significant anomalies were noted with this analysis.

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SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: HS24031472-01			Lab ID: HN2401013-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.68		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-02			Lab ID: HN2401013-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.75		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-04			Lab ID: HN2401013-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	6.17		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-05			Lab ID: HN2401013-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	5.75		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-07			Lab ID: HN2401013-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.18		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-08			Lab ID: HN2401013-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.14		0.200	0.500	ng/L	EPA 1631E

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Sample Receipt Information

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SAMPLE SUMMARY

Client: ALS Environmental
Project: HS24031472
Workorder: HN2401013

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2401013-001	HS24031472-01	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-002	HS24031472-02	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-003	HS24031472-03	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-004	HS24031472-04	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-005	HS24031472-05	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-006	HS24031472-06	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-007	HS24031472-07	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-008	HS24031472-08	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-009	HS24031472-09	WATER	03/26/24 07:20	03/28/24 09:00

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Environmental Division
Holland
Work Order Reference
HN2401013

Telephone : +1 616 399 6070

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

Texas

COC ID: 25144

SUBCONTRACT TO:

ALS Group USA, Corp.
3352 - 128th Ave
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Andy C. Neir
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Andrew.Neir@ALSGlobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24031472
TSR:	Houston House Acct

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID	MATRIX	COLLECT DATE / DUE DATE
1.	**HS24031472-01**	**Outfall 002**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024
2.	**HS24031472-02**	**Outfall 002 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
3.	**HS24031472-03**	**Outfall 002 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
4.	**HS24031472-04**	**Outfall 003**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024
5.	**HS24031472-05**	**Outfall 003 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
6.	**HS24031472-06**	**Outfall 003 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
7.	**HS24031472-07**	**Outfall 004**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25144**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
8.	**HS24031472-08**	**Outfall 004 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
9.	**HS24031472-09**	**Outfall 004 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: AM Date/Time: 3/27/24 18:00

Received By: Caleb Krueger Date/Time: 3-28-24 9:00

Cooler ID(s): Temperature(s): 2.3c

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ALS Holland Sample Receiving Checklist

Received by:	
Date/Time:	03-28-24
Carrier Name:	FedEx
Shipping container/cooler in good condition?	Yes / No / Not Present
Custody seals intact on shipping container/cooler?	Yes / No / Not Present
Custody seals intact on sample bottles?	Yes / No / Not Present
Chain of Custody present?	Yes / No
COC signed when relinquished and received?	Yes / No
COC agrees with sample labels?	Yes / No
Samples in proper container/bottle?	Yes / No
Sample containers intact?	Yes / No
Sufficient sample volume for indicated test?	Yes / No
All samples received within holding time?	Yes / No
Container/Temp Blank temperature in compliance?	Yes / No
Temperature(s) (°C):	2.3c DFZ
Thermometer(s):	DFZ
Sample(s) received on ice?	Yes / No
Matrix/Matrices:	water
Cooler(s)/Kit(s):	1
Date/Time sample(s) sent to storage:	3-28-24
Water – VOA vials have zero headspace?	Yes / No / No Vials
Water – pH acceptable upon receipt?	Yes / No / N/A
pH strip lot #: _____	< 2 _____ > 12 _____ Other _____
pH adjusted (note adjustments below)?	Yes / No / N/A
pH adjusted by:	
Login Notes:	

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Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Holland Laboratory Certifications[1]

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		1/1/2024	6/30/2024
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	6/28/2023	6/30/2024
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	7/6/2023	6/30/2024
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	6/5/2023	6/30/2024
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/5/2023	6/30/2024
Pennsylvania	NELAP (Secondary)	68-03827	12/21/23	7/31/2024
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	8/25/2023	8/31/2024
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

1 - Scope available upon request

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-01	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-001	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

Sample Name:	HS24031472-02	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-002	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-03	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-003	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-04	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-004	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-05	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-005	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-06	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-006	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-07	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-007	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

Sample Name:	HS24031472-08	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-008	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

RIGHT SOLUTIONS | RIGHT PARTNER

ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-09	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-009	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Results

RIGHT SOLUTIONS | RIGHT PARTNER

Metals

RIGHT SOLUTIONS | RIGHT PARTNER

Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-01		
Laboratory Code:	HN2401013-001		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.68**	ng/L	0.500	1	04/03/24 12:23	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-02		
Laboratory Code:	HN2401013-002		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.75**	ng/L	0.500	1	04/03/24 12:54	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-03
Laboratory Code: HN2401013-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:02	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-04		
Laboratory Code:	HN2401013-004		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**6.17**	ng/L	0.500	1	04/03/24 13:09	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-05		
Laboratory Code:	HN2401013-005		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**5.75**	ng/L	0.500	1	04/03/24 13:25	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-06		
Laboratory Code:	HN2401013-006		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:33	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-07
Laboratory Code: HN2401013-007

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.18**	ng/L	0.500	1	04/03/24 13:41	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-08		
Laboratory Code:	HN2401013-008		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.14**	ng/L	0.500	1	04/03/24 13:56	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-09
Laboratory Code: HN2401013-009

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 14:04	04/03/24 10:12	

RIGHT SOLUTIONS | RIGHT PARTNER

General Chemistry

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-01
Laboratory Code: HN2401013-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-04
Laboratory Code: HN2401013-004

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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Analytical Report

Client: ALS Environmental
Project: HS24031472/
Sample Matrix: WATER

Work Order: HN2401013
Date Collected: 03/26/24 07:20
Date Received: 03/28/24 09:00

Sample Name: HS24031472-07
Laboratory Code: HN2401013-007

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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QC Summary Forms

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Metals

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-001

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 12:15	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-002

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 12:46	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:17	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-004

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:48	04/03/24 10:13	

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Collected: 03/26/2024
Date Received: 03/28/2024
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Duplicate Matrix Spike Summary
Metals

Sample Name: HS24031472-01
Laboratory Code: HN2401013-001
Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2151509

	Matrix Spike				Duplicate Matrix Spike					
	QC-1387930-008				QC-1387930-009					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury	3.68	8.94	5	105	8.52	5	96.8	71-125	4.81	24

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Laboratory Control Sample Summary
Metals
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2151509

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1387930-005	5.18	5	104	77-123

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Laboratory Control Sample Summary
Metals
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2152728

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1387930-006	5.19	5	104	77-123

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General Chemistry

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1385839-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:46	04/01/24 08:50	

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/01/2024
Date Extracted: 04/01/2024

Laboratory Control Sample Summary
General Chemistry Parameters
Available Cyanide

Analysis Method: OIA 1677
Prep Method: Method

Units: µg/L
Analysis Lab Lot: 2147589

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1385839-002	59.3	50	118	82-132

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April 17, 2024

Quan Vu
Freeport LNG Development L.P.
1500 Lamar Street
Quintana, TX 77541

Work Order: **HS24031472**

Laboratory Results for: **Freeport LQF Permit**

Dear Quan Vu,

ALS Environmental received 12 sample(s) on Mar 26, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Andy C. Neir

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Work Order: HS24031472

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24031472-01	Outfall 002	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-02	Outfall 002 LL Hg Duplicate	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-03	Outfall 002 LL Hg Field Blank	Water		26-Mar-2024 07:20	26-Mar-2024 11:43	☐
HS24031472-04	Outfall 003	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-05	Outfall 003 LL Hg Duplicate	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-06	Outfall 003 LL Hg Field Blank	Water		26-Mar-2024 08:32	26-Mar-2024 11:43	☐
HS24031472-07	Outfall 004	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-08	Outfall 004 LL Hg Duplicate	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-09	Outfall 004 LL Hg Field Blank	Water		26-Mar-2024 08:24	26-Mar-2024 11:43	☐
HS24031472-10	CG-120823-442	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑
HS24031472-11	CG-120823-415	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑
HS24031472-12	CG-120823-418	Water		26-Mar-2024 00:00	26-Mar-2024 11:43	☑

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

Work Order Comments

• The analyses for Mercury and Cyanide, Available were subcontracted to ALS Environmental in Holland, MI. Final report attached.

• Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

Sample received outside method holding time for Dissolved Oxygen and Residual Chlorine. Dissolved Oxygen and Residual Chlorine are immediate tests. Sample results are flagged with an "H" qualifier.

GCMS Volatiles by Method E624

Batch ID: R462555

Sample ID: VLCSW-240328

• Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

Metals by Method Calculation

Batch ID: R463184

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method E200.8

Batch ID: 209608

Sample ID: HS24031372-01MSD

• MSD is for an unrelated sample

Batch ID: 209676

Sample ID: Outfall 004 (HS24031472-07MSD)

• MS12 The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.Aluminum

WetChemistry by Method E300

Batch ID: R462287

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R462373

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540D

Batch ID: R462503

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

WetChemistry by Method SM5310B

Batch ID: R462667

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500CL F

Batch ID: R462911

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E410.4

Batch ID: R463394

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM4500H+ B

Batch ID: R463361,R463362

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E1664A

Batch ID: R462910

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SM2320B

Batch ID: R462546,R462812

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M3500-Cr B

Batch ID: R462420

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E120.1

Batch ID: R462336

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500-O G

Batch ID: R462244

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M4500 NH3 D

Batch ID: 210055

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P. **CASE NARRATIVE**
Project: Freeport LQF Permit
Work Order: HS24031472

WetChemistry by Method SM4500 NH3-B-F

Batch ID: 210102

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: 209605

Sample ID: HS24031498-01MS

• MS and MSD are for an unrelated sample

WetChemistry by Method SM5210 B

Batch ID: 209484,209510

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:16
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:16
Surr: 1,2-Dichloroethane-d4	*113*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: 4-Bromofluorobenzene	*93.8*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: Dibromofluoromethane	*106*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:16*
Surr: Toluene-d8	*98.0*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:16*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 28-Mar-2024		Analyst: JC
Aluminum	**0.137**		**0.0100**	**mg/L**	1	01-Apr-2024 22:07
Antimony	ND		0.00500	mg/L	1	01-Apr-2024 22:07
Arsenic	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Barium	**0.0324**		**0.00400**	**mg/L**	1	01-Apr-2024 22:07
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 22:07
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 22:07
Copper	**0.00794**		**0.00200**	**mg/L**	1	01-Apr-2024 22:07
Lead	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Nickel	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Silver	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 22:07
Zinc	**0.162**		**0.00400**	**mg/L**	1	01-Apr-2024 22:07
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**322**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	**2.40**		**2.00**	**mg/L**	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**56.7**		**0.500**	**mg/L**	1	26-Mar-2024 14:32
Fluoride	**0.139**		**0.100**	**mg/L**	1	26-Mar-2024 14:32
Nitrogen, Nitrate (As N)	**1.09**		**0.100**	**mg/L**	1	26-Mar-2024 14:32
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:32
Sulfate	**13.8**		**0.500**	**mg/L**	1	26-Mar-2024 14:32
Nitrate/Nitrite (as N)	**1.16**		**0.200**	**mg/L**	1	26-Mar-2024 14:32
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**19.0**		**15.0**	**mg/L**	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**694**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**5.00**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**1.7**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**5.71**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**45.3**		**5.00**	**mg/L**	1	28-Mar-2024 13:21
Alkalinity, Total (As CaCO3)	**45.3**		**5.00**	**mg/L**	1	28-Mar-2024 13:21
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.28**		**0.050**	**mg/L**	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	ND	H	0.10	mg/L	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.54**	H	**0.100**	**pH Units**	1	08-Apr-2024 11:52
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**4.78**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**3.48**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**6.85**		**1.00**	**mg/L**	1	30-Mar-2024 04:02
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002 LL Hg Duplicate
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-02
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 002 LL Hg Field Blank
Collection Date: 26-Mar-2024 07:20

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:37
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:37
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: 4-Bromofluorobenzene	*87.5*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: Dibromofluoromethane	*105*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:37*
Surr: Toluene-d8	*95.3*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:37*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 28-Mar-2024		Analyst: JC
Aluminum	**0.595**		**0.0100**	**mg/L**	1	01-Apr-2024 22:08
Antimony	**0.00536**		**0.00500**	**mg/L**	1	01-Apr-2024 22:08
Arsenic	**0.00580**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Barium	**0.0740**		**0.00400**	**mg/L**	1	01-Apr-2024 22:08
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 22:08
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 22:08
Copper	**0.00356**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Lead	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Nickel	**0.00582**		**0.00200**	**mg/L**	1	01-Apr-2024 22:08
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Silver	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 22:08
Zinc	**0.0893**		**0.00400**	**mg/L**	1	01-Apr-2024 22:08
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**2,550**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**613**		**5.00**	**mg/L**	10	26-Mar-2024 14:50
Fluoride	**0.414**		**0.100**	**mg/L**	1	26-Mar-2024 14:44
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:44
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 14:44
Sulfate	**83.3**		**0.500**	**mg/L**	1	26-Mar-2024 14:44
Nitrate/Nitrite (as N)	ND		0.200	mg/L	1	26-Mar-2024 14:44
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-04
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	**21.0**		**15.0**	**mg/L**	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**1,250**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**188**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**0.76**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**8.03**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**197**		**5.00**	**mg/L**	1	28-Mar-2024 13:26
Alkalinity, Total (As CaCO3)	**202**		**5.00**	**mg/L**	1	28-Mar-2024 13:26
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	ND		0.050	mg/L	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	**0.30**	H	**0.10**	**mg/L**	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**8.04**	H	**0.100**	**pH Units**	1	08-Apr-2024 12:39
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**4.83**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**2.29**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**9.30**		**1.00**	**mg/L**	1	30-Mar-2024 04:48
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003 LL Hg Duplicate
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-05
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 003 LL Hg Field Blank
Collection Date: 26-Mar-2024 08:32

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-06
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES		**Method:E624**				Analyst: TS
Benzene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Ethylbenzene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Toluene	ND		5.00	ug/L	1	29-Mar-2024 01:58
Xylenes, Total	ND		5.00	ug/L	1	29-Mar-2024 01:58
Surr: 1,2-Dichloroethane-d4	*112*		*70-126*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: 4-Bromofluorobenzene	*91.1*		*82-124*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: Dibromofluoromethane	*108*		*77-123*	*%REC*	*1*	*29-Mar-2024 01:58*
Surr: Toluene-d8	*99.5*		*82-127*	*%REC*	*1*	*29-Mar-2024 01:58*
TRIVALENT CHROMIUM		**Method:Calculation**				Analyst: MSC
Chromium, Trivalent	ND	n	0.0100	mg/L	1	05-Apr-2024 12:56
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**		Prep:E200.8 / 29-Mar-2024		Analyst: MSC
Aluminum	**0.320**		**0.0100**	**mg/L**	1	01-Apr-2024 15:36
Antimony	ND		0.00500	mg/L	1	01-Apr-2024 15:36
Arsenic	**0.00218**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Barium	**0.0918**		**0.00400**	**mg/L**	1	01-Apr-2024 15:36
Beryllium	ND		0.00500	mg/L	1	01-Apr-2024 15:36
Cadmium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Chromium	ND		0.00400	mg/L	1	01-Apr-2024 15:36
Copper	**0.00512**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Lead	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Nickel	**0.00532**		**0.00200**	**mg/L**	1	01-Apr-2024 15:36
Selenium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Silver	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Thallium	ND		0.00200	mg/L	1	01-Apr-2024 15:36
Zinc	**0.0502**		**0.00400**	**mg/L**	1	01-Apr-2024 15:36
SPECIFIC CONDUCTANCE BY E120.1, 1982		**Method:E120.1**				Analyst: CD
Specific Conductance	**2,980**		**5.00**	**umhos/cm**	1	27-Mar-2024 14:44
OIL & GREASE (HEM) BY E1664A		**Method:E1664A**				Analyst: MC
Oil and Grease	ND		2.00	mg/L	1	03-Apr-2024 07:00
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**				Analyst: TH
Chloride	**767**		**5.00**	**mg/L**	10	26-Mar-2024 15:31
Fluoride	**0.185**		**0.100**	**mg/L**	1	26-Mar-2024 15:25
Nitrogen, Nitrate (As N)	ND		0.100	mg/L	1	26-Mar-2024 15:25
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	26-Mar-2024 15:25
Sulfate	**101**		**5.00**	**mg/L**	10	26-Mar-2024 15:31
Nitrate/Nitrite (as N)	ND		0.200	mg/L	1	26-Mar-2024 15:25
PHOSPHORUS BY E365.3-1978		**Method:E365.3**		Prep:E365.3 / 28-Mar-2024		Analyst: MM
Phosphate, Total	ND		0.153	mg/L	1	28-Mar-2024 18:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-07
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993		**Method:E410.4**				Analyst: TH
Chemical Oxygen Demand	ND		15.0	mg/L	1	08-Apr-2024 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**				Analyst: HB
Total Dissolved Solids (Residue, Filterable)	**1,480**		**10.0**	**mg/L**	1	28-Mar-2024 09:07
TOTAL SUSPENDED SOLIDS BY SM 2540D-2011		**Method:M2540D**				Analyst: HB
Suspended Solids (Residue, Non -Filterable)	**87.0**		**2.50**	**mg/L**	1	28-Mar-2024 13:00
HEXAVALENT CHROMIUM BY SM3500-CR B-2011		**Method:M3500-Cr B**				Analyst: MZD
Chromium, Hexavalent	ND		0.0200	mg/L	1	26-Mar-2024 11:51
TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011		**Method:M4500 NH3 D**		Prep:M4500-N C / 05-Apr-2024		Analyst: MM
Nitrogen, Total Kjeldahl	**0.72**		**0.50**	**mg/L**	1	05-Apr-2024 15:27
DISSOLVED OXYGEN BY SM4500-O G		**Method:M4500-O G**				Analyst: JAC
Oxygen, Dissolved	**6.46**	H	**1.00**	**mg/L**	1	26-Mar-2024 15:26
ALKALINITY BY -2011		**Method:SM2320B**				Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**133**		**5.00**	**mg/L**	1	30-Mar-2024 14:25
Alkalinity, Total (As CaCO3)	**133**		**5.00**	**mg/L**	1	30-Mar-2024 14:25
AMMONIA AS N BY SM4500 NH3-B-F-2011		**Method:SM4500 NH3-B-F**		Prep:M4500-NH3 B / 08-Apr-2024		Analyst: MZD
Nitrogen, Ammonia (as N)	**0.097**		**0.050**	**mg/L**	1	08-Apr-2024 15:50
RESIDUAL CHLORINE BY SM4500CL F-2011		**Method:SM4500CL F**				Analyst: MC
Chlorine	ND	H	0.10	mg/L	1	03-Apr-2024 10:45
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**				Analyst: MR
pH	**7.86**	H	**0.100**	**pH Units**	1	08-Apr-2024 12:49
BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Biochemical Oxygen Demand	**5.00**		**2.00**	**mg/L**	1	01-Apr-2024 11:31
CBOD BY SM5210B-2011		**Method:SM5210 B**		Prep:SM5210 B / 27-Mar-2024		Analyst: MZD
Carbonaceous Biochemical Oxygen Demand	**4.38**		**2.00**	**mg/L**	1	01-Apr-2024 14:03
TOTAL ORGANIC CARBON - SM5310B-2011		**Method:SM5310B**				Analyst: JAC
Organic Carbon, Total	**9.13**		**1.00**	**mg/L**	1	30-Mar-2024 05:04
SUBCONTRACT ANALYSIS - MERCURY LOW		**Method:NA**				Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25
AVAILABLE CYANIDE BY EPA OIA-1677		**Method:OIA 1677**				Analyst: SUBHO
Cyanide, Available	See Attached			ug/L	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004 LL Hg Duplicate
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
Sample ID: Outfall 004 LL Hg Field Blank
Collection Date: 26-Mar-2024 08:24

ANALYTICAL REPORT
WorkOrder:HS24031472
Lab ID:HS24031472-09
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - MERCURY LOW	**Method:NA**					Analyst: SUBHO
Subcontract Analysis	See Attached			NA	1	10-Apr-2024 09:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

Batch ID: 209484 **Start Date:** 27 Mar 2024 09:30 **End Date:** 27 Mar 2024 09:30
Method: WETCHEMPREP, BOD **Prep Code:** BOD_PR 5210B

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209510 **Start Date:** 27 Mar 2024 14:00 **End Date:** 27 Mar 2024 14:00
Method: CBOD PREP **Prep Code:** CBOD_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-04		300 (mL)	300 (mL)	1	1-L plastic, Neat
HS24031472-07		300 (mL)	300 (mL)	1	1-L plastic, Neat

Batch ID: 209605 **Start Date:** 28 Mar 2024 11:23 **End Date:** 28 Mar 2024 11:23
Method: PHOSPHOROUS **Prep Code:** P_TW_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-04		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-07		50 (mg/L)	50 (mL)	1	500 mL plastic, H2SO4 to pH <2

Batch ID: 209608 **Start Date:** 28 Mar 2024 14:30 **End Date:** 28 Mar 2024 14:30
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24031472-04		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 209676 **Start Date:** 29 Mar 2024 13:00 **End Date:** 29 Mar 2024 13:00
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 210055 **Start Date:** 05 Apr 2024 08:18 **End Date:** 05 Apr 2024 08:18
Method: TKN WATER - PREP **Prep Code:** TKN_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2
HS24031472-04		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2
HS24031472-07		25 (mL)	50 (mL)	2	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

Batch ID: 210102 **Start Date:** 08 Apr 2024 14:01 **End Date:** 08 Apr 2024 14:01
Method: NITROGEN AMMONIA - WATER - PREP **Prep Code:** NIT_AMM_W_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24031472-01		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-04		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2
HS24031472-07		25 (mL)	25 (mL)	1	500 mL plastic, H2SO4 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 209484 (0)	**Test Name :** BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		27 Mar 2024 09:30	01 Apr 2024 11:31	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		27 Mar 2024 09:30	01 Apr 2024 11:31	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		27 Mar 2024 09:30	01 Apr 2024 11:31	1
Batch ID: 209510 (0)	**Test Name :** CBOD BY SM5210B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		27 Mar 2024 14:00	01 Apr 2024 14:03	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		27 Mar 2024 14:00	01 Apr 2024 14:03	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		27 Mar 2024 14:00	01 Apr 2024 14:03	1
Batch ID: 209605 (0)	**Test Name :** PHOSPHORUS BY E365.3-1978				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		28 Mar 2024 11:23	28 Mar 2024 18:11	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		28 Mar 2024 11:23	28 Mar 2024 18:11	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		28 Mar 2024 11:23	28 Mar 2024 18:11	1
Batch ID: 209608 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		28 Mar 2024 14:30	01 Apr 2024 22:07	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		28 Mar 2024 14:30	01 Apr 2024 22:08	1
Batch ID: 209676 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24		29 Mar 2024 13:00	01 Apr 2024 15:36	1
Batch ID: 210055 (0)	**Test Name :** TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		05 Apr 2024 08:18	05 Apr 2024 15:27	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		05 Apr 2024 08:18	05 Apr 2024 15:27	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		05 Apr 2024 08:18	05 Apr 2024 15:27	1
Batch ID: 210102 (0)	**Test Name :** AMMONIA AS N BY SM4500 NH3-B-F-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20		08 Apr 2024 14:01	08 Apr 2024 15:50	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32		08 Apr 2024 14:01	08 Apr 2024 15:50	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24		08 Apr 2024 14:01	08 Apr 2024 15:50	1
Batch ID: R462244 (0)	**Test Name :** DISSOLVED OXYGEN BY SM4500-O G				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 15:26	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 15:26	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:26	1
Batch ID: R462287 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 14:32	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 14:50	10
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 14:44	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:31	10
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 15:25	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R462336 (0)	**Test Name :** SPECIFIC CONDUCTANCE BY E120.1, 1982				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			27 Mar 2024 14:44	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			27 Mar 2024 14:44	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			27 Mar 2024 14:44	1
Batch ID: R462373 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 09:07	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 09:07	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			28 Mar 2024 09:07	1
Batch ID: R462420 (0)	**Test Name :** HEXAVALENT CHROMIUM BY SM3500-CR B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			26 Mar 2024 11:51	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			26 Mar 2024 11:51	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			26 Mar 2024 11:51	1
Batch ID: R462503 (0)	**Test Name :** TOTAL SUSPENDED SOLIDS BY SM 2540D-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 13:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 13:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			28 Mar 2024 13:00	1
Batch ID: R462546 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			28 Mar 2024 13:21	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			28 Mar 2024 13:26	1
Batch ID: R462555 (0)	**Test Name :** VOLATILES				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			29 Mar 2024 01:16	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			29 Mar 2024 01:37	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			29 Mar 2024 01:58	1
Batch ID: R462667 (0)	**Test Name :** TOTAL ORGANIC CARBON - SM5310B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			30 Mar 2024 04:02	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			30 Mar 2024 04:48	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			30 Mar 2024 05:04	1
Batch ID: R462812 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24			30 Mar 2024 14:25	1
Batch ID: R462910 (0)	**Test Name :** OIL & GREASE (HEM) BY E1664A				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			03 Apr 2024 07:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			03 Apr 2024 07:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			03 Apr 2024 07:00	1
Batch ID: R462911 (0)	**Test Name :** RESIDUAL CHLORINE BY SM4500CL F-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			03 Apr 2024 10:45	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			03 Apr 2024 10:45	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			03 Apr 2024 10:45	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R463184 (0)	**Test Name :** TRIVALENT CHROMIUM				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			05 Apr 2024 12:56	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			05 Apr 2024 12:56	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			05 Apr 2024 12:56	1
Batch ID: R463361 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			08 Apr 2024 11:52	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			08 Apr 2024 12:39	1
Batch ID: R463362 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS24031472-07	Outfall 004	26 Mar 2024 08:24			08 Apr 2024 12:49	1
Batch ID: R463394 (0)	**Test Name :** CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			08 Apr 2024 16:00	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			08 Apr 2024 16:00	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			08 Apr 2024 16:00	1
Batch ID: R463528 (0)	**Test Name :** AVAILABLE CYANIDE BY EPA OIA-1677				**Matrix:** Water	
HS24031472-01	Outfall 002	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-01	Outfall 002	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-02	Outfall 002 LL Hg Duplicate	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-03	Outfall 002 LL Hg Field Blank	26 Mar 2024 07:20			10 Apr 2024 09:25	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-04	Outfall 003	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-05	Outfall 003 LL Hg Duplicate	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-06	Outfall 003 LL Hg Field Blank	26 Mar 2024 08:32			10 Apr 2024 09:25	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-07	Outfall 004	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-08	Outfall 004 LL Hg Duplicate	26 Mar 2024 08:24			10 Apr 2024 09:25	1
HS24031472-09	Outfall 004 LL Hg Field Blank	26 Mar 2024 08:24			10 Apr 2024 09:25	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-209608** Units: **ug/L** Analysis Date: **01-Apr-2024 21:35**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920399** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	ND	10.0							
Antimony	ND	5.00							
Arsenic	ND	2.00							
Barium	ND	4.00							
Beryllium	ND	5.00							
Cadmium	ND	2.00							
Chromium	ND	4.00							
Copper	ND	2.00							
Lead	ND	2.00							
Nickel	ND	2.00							
Selenium	ND	2.00							
Silver	ND	2.00							
Thallium	ND	2.00							
Zinc	ND	4.00							

LCS Sample ID: **LCS-209608** Units: **ug/L** Analysis Date: **01-Apr-2024 21:37**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920400** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	110	10.0	100	0	110	85 - 115			
Antimony	49.55	5.00	50	0	99.1	85 - 115			
Arsenic	48.39	2.00	50	0	96.8	85 - 115			
Barium	48.24	4.00	50	0	96.5	85 - 115			
Beryllium	47.22	5.00	50	0	94.4	85 - 115			
Cadmium	47.59	2.00	50	0	95.2	85 - 115			
Chromium	48.53	4.00	50	0	97.1	85 - 115			
Copper	49.32	2.00	50	0	98.6	85 - 115			
Lead	47.33	2.00	50	0	94.7	85 - 115			
Nickel	49.16	2.00	50	0	98.3	85 - 115			
Selenium	46.42	2.00	50	0	92.8	85 - 115			
Silver	48.89	2.00	50	0	97.8	85 - 115			
Zinc	49.86	4.00	50	0	99.7	85 - 115			

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

LCS Sample ID: **LCS-209608** Units: **ug/L** Analysis Date: **02-Apr-2024 11:53**
Client ID: Run ID: **ICPMS06_462809** SeqNo: **7921516** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Thallium	48.37	2.00	50	0	96.7	85 - 115				

MS Sample ID: **HS24031372-02MS** Units: **ug/L** Analysis Date: **01-Apr-2024 21:47**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920405** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	291.8	10.0	100	201.8	90.0	70 - 130				
Antimony	46.96	5.00	50	0.139	93.6	70 - 130				
Arsenic	46.18	2.00	50	1.429	89.5	70 - 130				
Barium	340.1	4.00	50	290.1	100	70 - 130				O
Beryllium	44.92	5.00	50	0.354	89.1	70 - 130				
Cadmium	46.73	2.00	50	0.824	91.8	70 - 130				
Chromium	46.62	4.00	50	2.282	88.7	70 - 130				
Copper	47.76	2.00	50	2.795	89.9	70 - 130				
Lead	47.9	2.00	50	1.391	93.0	70 - 130				
Nickel	45.76	2.00	50	0.876	89.8	70 - 130				
Selenium	45.08	2.00	50	0.836	88.5	70 - 130				
Silver	46.58	2.00	50	0.029	93.1	70 - 130				
Thallium	40.47	2.00	50	0.542	79.9	70 - 130				
Zinc	66.95	4.00	50	22.46	89.0	70 - 130				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS24031372-01MS** Units: **ug/L** Analysis Date: **01-Apr-2024 21:41**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920402** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	359.1	10.0	100	244.9	114	70 - 130				
Antimony	47.98	5.00	50	0.159	95.6	70 - 130				
Arsenic	46.78	2.00	50	1.47	90.6	70 - 130				
Barium	397.2	4.00	50	332.2	130	70 - 130				O
Beryllium	46.3	5.00	50	0.31	92.0	70 - 130				
Cadmium	45.3	2.00	50	0.155	90.3	70 - 130				
Chromium	48.22	4.00	50	2.082	92.3	70 - 130				
Copper	49.5	2.00	50	2.18	94.6	70 - 130				
Lead	49.21	2.00	50	2.575	93.3	70 - 130				
Nickel	45.92	2.00	50	1.065	89.7	70 - 130				
Selenium	45.08	2.00	50	-0.324	90.8	70 - 130				
Silver	46.5	2.00	50	0.031	92.9	70 - 130				
Thallium	40.2	2.00	50	0.615	79.2	70 - 130				
Zinc	77.36	4.00	50	33.23	88.2	70 - 130				

MSD Sample ID: **HS24031372-02MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 21:49**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920406** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	297.6	10.0	100	201.8	95.8	70 - 130	291.8	1.98	20	
Antimony	47.18	5.00	50	0.139	94.1	70 - 130	46.96	0.455	20	
Arsenic	47.04	2.00	50	1.429	91.2	70 - 130	46.18	1.84	20	
Barium	334.7	4.00	50	290.1	89.2	70 - 130	340.1	1.62	20	O
Beryllium	46.03	5.00	50	0.354	91.4	70 - 130	44.92	2.44	20	
Cadmium	47.2	2.00	50	0.824	92.8	70 - 130	46.73	1	20	
Chromium	47.49	4.00	50	2.282	90.4	70 - 130	46.62	1.84	20	
Copper	49.32	2.00	50	2.795	93.0	70 - 130	47.76	3.22	20	
Lead	47.68	2.00	50	1.391	92.6	70 - 130	47.9	0.452	20	
Nickel	47.32	2.00	50	0.876	92.9	70 - 130	45.76	3.35	20	
Selenium	43.83	2.00	50	0.836	86.0	70 - 130	45.08	2.81	20	
Silver	47.42	2.00	50	0.029	94.8	70 - 130	46.58	1.8	20	
Thallium	40.99	2.00	50	0.542	80.9	70 - 130	40.47	1.28	20	
Zinc	66.61	4.00	50	22.46	88.3	70 - 130	66.95	0.514	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209608 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS24031372-01MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 21:43**
Client ID: Run ID: **ICPMS06_462713** SeqNo: **7920403** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	361.2	10.0	100	244.9	116	70 - 130	359.1	0.565	20	
Antimony	46.4	5.00	50	0.159	92.5	70 - 130	47.98	3.35	20	
Arsenic	46.45	2.00	50	1.47	90.0	70 - 130	46.78	0.693	20	
Barium	400.3	4.00	50	332.2	136	70 - 130	397.2	0.771	20	SO
Beryllium	46.07	5.00	50	0.31	91.5	70 - 130	46.3	0.502	20	
Cadmium	45.8	2.00	50	0.155	91.3	70 - 130	45.3	1.09	20	
Chromium	47.57	4.00	50	2.082	91.0	70 - 130	48.22	1.37	20	
Copper	49.31	2.00	50	2.18	94.3	70 - 130	49.5	0.372	20	
Lead	49.28	2.00	50	2.575	93.4	70 - 130	49.21	0.14	20	
Nickel	47.04	2.00	50	1.065	91.9	70 - 130	45.92	2.41	20	
Selenium	46.7	2.00	50	-0.324	94.0	70 - 130	45.08	3.54	20	
Silver	47.25	2.00	50	0.031	94.4	70 - 130	46.5	1.6	20	
Thallium	40.65	2.00	50	0.615	80.1	70 - 130	40.2	1.13	20	
Zinc	77.43	4.00	50	33.23	88.4	70 - 130	77.36	0.093	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 15:32**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919855** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	10.0								
Antimony	ND	5.00								
Arsenic	ND	2.00								
Barium	ND	4.00								
Beryllium	ND	5.00								
Cadmium	ND	2.00								
Chromium	ND	4.00								
Copper	ND	2.00								
Lead	ND	2.00								
Nickel	ND	2.00								
Selenium	ND	2.00								
Silver	ND	2.00								
Thallium	ND	2.00								
Zinc	ND	4.00								

LCS Sample ID: **LCS-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 17:56**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7920202** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	113.2	10.0	100	0	113	85 - 115				
Zinc	55.5	4.00	50	0	111	85 - 115				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

LCS Sample ID: **LCS-209676** Units: **ug/L** Analysis Date: **01-Apr-2024 15:34**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919856** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	46.56	5.00	50	0	93.1	85 - 115				
Arsenic	48.52	2.00	50	0	97.0	85 - 115				
Barium	51.07	4.00	50	0	102	85 - 115				
Beryllium	46.88	5.00	50	0	93.8	85 - 115				
Cadmium	50.78	2.00	50	0	102	85 - 115				
Chromium	45.98	4.00	50	0	92.0	85 - 115				
Copper	50	2.00	50	0	100	85 - 115				
Lead	50.95	2.00	50	0	102	85 - 115				
Nickel	50.23	2.00	50	0	100	85 - 115				
Selenium	47.71	2.00	50	0	95.4	85 - 115				
Silver	47.85	2.00	50	0	95.7	85 - 115				
Thallium	48.33	2.00	50	0	96.7	85 - 115				

MS Sample ID: **HS24031629-02MS** Units: **ug/L** Analysis Date: **01-Apr-2024 15:46**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919861** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	641.7	10.0	100	536.8	105	70 - 130				O
Antimony	48.24	5.00	50	2.071	92.3	70 - 130				
Arsenic	54.14	2.00	50	3.474	101	70 - 130				
Barium	56.98	4.00	50	4.646	105	70 - 130				
Beryllium	50.26	5.00	50	-0.012	101	70 - 130				
Cadmium	50.39	2.00	50	-0.054	101	70 - 130				
Chromium	46.76	4.00	50	0.433	92.6	70 - 130				
Copper	48.71	2.00	50	0.62	96.2	70 - 130				
Lead	53.08	2.00	50	0.027	106	70 - 130				
Nickel	54.19	2.00	50	4.355	99.7	70 - 130				
Selenium	49.9	2.00	50	0.292	99.2	70 - 130				
Silver	46.01	2.00	50	0.139	91.7	70 - 130				
Thallium	49.56	2.00	50	-0.262	99.6	70 - 130				
Zinc	58.72	4.00	50	9.067	99.3	70 - 130				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS24031472-07MS** Units: **ug/L** Analysis Date: **01-Apr-2024 15:39**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7919858** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	435.8	10.0	100	319.5	116	70 - 130				
Antimony	43.43	5.00	50	0.706	85.5	70 - 130				
Arsenic	47.61	2.00	50	2.178	90.9	70 - 130				
Barium	136.2	4.00	50	91.84	88.8	70 - 130				
Beryllium	47.9	5.00	50	0.015	95.8	70 - 130				
Cadmium	47.23	2.00	50	-0.003	94.5	70 - 130				
Chromium	43.02	4.00	50	1.183	83.7	70 - 130				
Copper	48.94	2.00	50	5.117	87.7	70 - 130				
Lead	48.94	2.00	50	0.808	96.3	70 - 130				
Nickel	50.07	2.00	50	5.316	89.5	70 - 130				
Selenium	45.85	2.00	50	0.996	89.7	70 - 130				
Silver	43.18	2.00	50	-0.041	86.4	70 - 130				
Thallium	45.89	2.00	50	-0.273	92.3	70 - 130				
Zinc	91.53	4.00	50	50.19	82.7	70 - 130				

MSD Sample ID: **HS24031629-02MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 15:48**
Client ID: Run ID: **ICPMS07_462710** SeqNo: **7919862** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	625.8	10.0	100	536.8	89.1	70 - 130	641.7	2.51	20	O
Antimony	47.76	5.00	50	2.071	91.4	70 - 130	48.24	1	20	
Arsenic	52.11	2.00	50	3.474	97.3	70 - 130	54.14	3.82	20	
Barium	57.03	4.00	50	4.646	105	70 - 130	56.98	0.0824	20	
Beryllium	50.6	5.00	50	-0.012	101	70 - 130	50.26	0.668	20	
Cadmium	50.53	2.00	50	-0.054	101	70 - 130	50.39	0.274	20	
Chromium	45.73	4.00	50	0.433	90.6	70 - 130	46.76	2.23	20	
Copper	47.94	2.00	50	0.62	94.6	70 - 130	48.71	1.59	20	
Lead	53.06	2.00	50	0.027	106	70 - 130	53.08	0.032	20	
Nickel	52.19	2.00	50	4.355	95.7	70 - 130	54.19	3.76	20	
Selenium	48.2	2.00	50	0.292	95.8	70 - 130	49.9	3.48	20	
Silver	46.07	2.00	50	0.139	91.9	70 - 130	46.01	0.128	20	
Thallium	48.74	2.00	50	-0.262	98.0	70 - 130	49.56	1.65	20	
Zinc	57.36	4.00	50	9.067	96.6	70 - 130	58.72	2.35	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209676 (0) **Instrument: ICPMS07** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS24031472-07MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 17:53**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7920201** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	482.6	10.0	100	319.5	163	70 - 130	435.8	10.2	20	S

MSD Sample ID: **HS24031472-07MSD** Units: **ug/L** Analysis Date: **01-Apr-2024 15:41**
Client ID: **Outfall 004** Run ID: **ICPMS07_462710** SeqNo: **7919859** PrepDate: **29-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	46.49	5.00	50	0.706	91.6	70 - 130	43.43	6.81	20	
Arsenic	51.18	2.00	50	2.178	98.0	70 - 130	47.61	7.23	20	
Barium	147.4	4.00	50	91.84	111	70 - 130	136.2	7.88	20	
Beryllium	50.66	5.00	50	0.015	101	70 - 130	47.9	5.61	20	
Cadmium	50.5	2.00	50	-0.003	101	70 - 130	47.23	6.7	20	
Chromium	48.42	4.00	50	1.183	94.5	70 - 130	43.02	11.8	20	
Copper	52.69	2.00	50	5.117	95.1	70 - 130	48.94	7.37	20	
Lead	52.49	2.00	50	0.808	103	70 - 130	48.94	7	20	
Nickel	54.09	2.00	50	5.316	97.6	70 - 130	50.07	7.72	20	
Selenium	49.26	2.00	50	0.996	96.5	70 - 130	45.85	7.16	20	
Silver	45.44	2.00	50	-0.041	91.0	70 - 130	43.18	5.1	20	
Thallium	48.55	2.00	50	-0.273	97.7	70 - 130	45.89	5.65	20	
Zinc	99.32	4.00	50	50.19	98.3	70 - 130	91.53	8.17	20	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462555 (0) **Instrument: VOA10** **Method: VOLATILES**

MBLK Sample ID: **VBLKW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 22:07**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915683** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.00								
Ethylbenzene	ND	5.00								
Toluene	ND	5.00								
Xylenes, Total	ND	5.00								
Surr: 1,2-Dichloroethane-d4	*54.06*	*5.00*	*50*	*0*	*108*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*45.45*	*5.00*	*50*	*0*	*90.9*	*82 - 124*				
Surr: Dibromofluoromethane	*54.82*	*5.00*	*50*	*0*	*110*	*77 - 123*				
Surr: Toluene-d8	*48.26*	*5.00*	*50*	*0*	*96.5*	*82 - 127*				

LCS Sample ID: **VLCSW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 21:04**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.54	5.00	20	0	97.7	74 - 120				
Ethylbenzene	19.64	5.00	20	0	98.2	77 - 117				
Toluene	19.39	5.00	20	0	96.9	77 - 118				
Xylenes, Total	59.27	5.00	60	0	98.8	75 - 122				
Surr: 1,2-Dichloroethane-d4	*53.69*	*5.00*	*50*	*0*	*107*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*45.68*	*5.00*	*50*	*0*	*91.4*	*83 - 122*				
Surr: Dibromofluoromethane	*52.07*	*5.00*	*50*	*0*	*104*	*73 - 126*				
Surr: Toluene-d8	*47.84*	*5.00*	*50*	*0*	*95.7*	*81 - 119*				

LCSD Sample ID: **VLCSDW-240328** Units: **ug/L** Analysis Date: **28-Mar-2024 21:25**
Client ID: Run ID: **VOA10_462555** SeqNo: **7915682** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.83	5.00	20	0	94.2	74 - 120	19.54	3.68	20	
Ethylbenzene	19.03	5.00	20	0	95.2	77 - 117	19.64	3.12	20	
Toluene	18.88	5.00	20	0	94.4	77 - 118	19.39	2.64	20	
Xylenes, Total	55.67	5.00	60	0	92.8	75 - 122	59.27	6.28	20	
Surr: 1,2-Dichloroethane-d4	*55.26*	*5.00*	*50*	*0*	*111*	*70 - 130*	*53.69*	*2.87*	*20*	
Surr: 4-Bromofluorobenzene	*47.98*	*5.00*	*50*	*0*	*96.0*	*83 - 122*	*45.68*	*4.92*	*20*	
Surr: Dibromofluoromethane	*52.98*	*5.00*	*50*	*0*	*106*	*73 - 126*	*52.07*	*1.73*	*20*	
Surr: Toluene-d8	*48.84*	*5.00*	*50*	*0*	*97.7*	*81 - 119*	*47.84*	*2.07*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Freeport LNG Development L.P.
Project:	Freeport LQF Permit
WorkOrder:	HS24031472

QC BATCH REPORT

Batch ID:	**R462555 (0)**	**Instrument:**	**VOA10**	**Method:**	**VOLATILES**

The following samples were analyzed in this batch:	HS24031472-01	HS24031472-04	HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209484 (0) **Instrument: Skalar 02** **Method: BIOCHEMICAL OXYGEN DEMAND (BOD) BY SM5210B-2011**

MBLK Sample ID: **MBLK-209484** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: Run ID: **Skalar 02_462730** SeqNo: **7919333** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209484** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: Run ID: **Skalar 02_462730** SeqNo: **7919332** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	181.6	2.00	198	0	91.7	85 - 115				

DUP Sample ID: **HS24031472-01DUP** Units: **mg/L** Analysis Date: **01-Apr-2024 11:31**
Client ID: **Outfall 002** Run ID: **Skalar 02_462730** SeqNo: **7919331** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	4.56	2.00					4.78	4.71	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209510 (0) **Instrument: Skalar 02** **Method: CBOD BY SM5210B-2011**

MBLK Sample ID: **MBLK-209510** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919984** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	ND	2.00								

LCS Sample ID: **LCS-209510** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919983** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	183.4	2.00	198	0	92.6	85 - 115				

DUP Sample ID: **HS24031468-01DUP** Units: **mg/L** Analysis Date: **01-Apr-2024 14:03**
Client ID: Run ID: **Skalar 02_462747** SeqNo: **7919982** PrepDate: **27-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbonaceous Biochemical Oxygen Demand	3.97	2.00					4.24	6.58	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 209605 (0) **Instrument: UV-2450** **Method: PHOSPHORUS BY E365.3-1978**

MBLK Sample ID: **MBLK-209605** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914580** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	ND	0.153								

LCS Sample ID: **LCS-209605** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914579** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.7969	0.153	0.766	0	104	80 - 120				

MS Sample ID: **HS24031498-01MS** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914577** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.7754	0.153	0.766	-0.1532	121	80 - 120				S

MSD Sample ID: **HS24031498-01MSD** Units: **mg/L** Analysis Date: **28-Mar-2024 18:11**
Client ID: Run ID: **UV-2450_462514** SeqNo: **7914578** PrepDate: **28-Mar-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphate, Total	0.8092	0.153	0.766	-0.1532	126	80 - 120	0.7754	4.26	20	S

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210055 (0) **Instrument: WetChem_HS** **Method: TOTAL KJELDAHL NITROGEN BY SM4500 NH3 D-2011**

MBLK Sample ID: **MBLK-210055** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931367** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	ND	0.50								

LCS Sample ID: **LCS-210055** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931366** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	21.63	0.50	20	0	108	85 - 115				

MS Sample ID: **HS24040094-01MS** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931364** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	19.12	0.50	20	0.42	93.5	75 - 125				

MSD Sample ID: **HS24040094-01MSD** Units: **mg/L** Analysis Date: **05-Apr-2024 15:27**
Client ID: Run ID: **WetChem_HS_463233** SeqNo: **7931365** PrepDate: **05-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Total Kjeldahl	19.38	0.50	20	0.42	94.8	75 - 125	19.12	1.35	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210102 (0) **Instrument: UV-2450** **Method: AMMONIA AS N BY SM4500 NH3-B-F-2011**

MBLK Sample ID: **MBLK-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934373** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	ND	0.050								

LCS Sample ID: **LCS-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934370** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.518	0.050	0.5	0	104	85 - 115				

LCSD Sample ID: **LCSD-210102** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934371** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.518	0.050	0.5	0	104	85 - 115	0.518	0	20	

MS Sample ID: **HS24040069-03MS** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934368** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.608	0.050	0.5	0.168	88.0	80 - 120				

MS Sample ID: **HS24031754-04MS** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934366** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.483	0.050	0.5	0.062	84.2	80 - 120				

MSD Sample ID: **HS24040069-03MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934369** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.609	0.050	0.5	0.168	88.2	80 - 120	0.608	0.164	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: 210102 (0) **Instrument: UV-2450** **Method: AMMONIA AS N BY SM4500 NH3-B-F-2011**

MSD Sample ID: **HS24031754-04MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 15:50**
Client ID: Run ID: **UV-2450_463393** SeqNo: **7934367** PrepDate: **08-Apr-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (as N)	0.483	0.050	0.5	0.062	84.2	80 - 120	0.483	0	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: **R462244 (0)** **Instrument:** **Skalar 02** **Method:** **DISSOLVED OXYGEN BY SM4500-O G**

DUP Sample ID: **HS24031472-01DUP** Units: **mg/L** Analysis Date: **26-Mar-2024 15:26**
Client ID: **Outfall 002** Run ID: **Skalar 02_462244** SeqNo: **7908554** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oxygen, Dissolved	5.56	1.00					5.71	2.66	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462287 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **26-Mar-2024 10:54**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.500								
Fluoride	ND	0.100								
Nitrogen, Nitrate (As N)	ND	0.100								
Nitrogen, Nitrite (As N)	ND	0.100								
Nitrate/Nitrite (as N)	ND	0.200								
Sulfate	ND	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:00**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909830** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.96	0.500	20	0	105	90 - 110				
Fluoride	4.182	0.100	4	0	105	90 - 110				
Nitrogen, Nitrate (As N)	4.077	0.100	4	0	102	90 - 110				
Nitrogen, Nitrite (As N)	4.205	0.100	4	0	105	90 - 110				
Nitrate/Nitrite (as N)	8.282	0.200	8	0	104	90 - 110				
Sulfate	21.04	0.500	20	0	105	90 - 110				

MS Sample ID: **HS24031429-03MS** Units: **mg/L** Analysis Date: **26-Mar-2024 13:40**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909849** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	189.3	2.50	50	141	96.6	80 - 120				
Fluoride	8.616	0.500	10	0	86.2	80 - 120				
Nitrogen, Nitrate (As N)	10.07	0.500	10	0.5855	94.8	80 - 120				
Nitrogen, Nitrite (As N)	9.652	0.500	10	0.175	94.8	80 - 120				
Nitrate/Nitrite (as N)	19.72	1.00	20	0.7605	94.8	80 - 120				
Sulfate	215.6	2.50	50	166.7	97.7	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462287 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MS Sample ID: **HS24031405-01MS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:18**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909832** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8330	50.0	1000	7525	80.5	80 - 120				O
Fluoride	199.1	10.0	200	0	99.5	80 - 120				
Nitrogen, Nitrate (As N)	201.4	10.0	200	7.08	97.2	80 - 120				
Nitrogen, Nitrite (As N)	193	10.0	200	1.26	95.9	80 - 120				
Nitrate/Nitrite (as N)	394.4	20.0	400	7.08	96.8	80 - 120				
Sulfate	1554	50.0	1000	542.9	101	80 - 120				

MSD Sample ID: **HS24031429-03MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 13:46**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909850** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	188.7	2.50	50	141	95.4	80 - 120	189.3	0.309	20	
Fluoride	8.408	0.500	10	0	84.1	80 - 120	8.616	2.46	20	
Nitrogen, Nitrate (As N)	10.02	0.500	10	0.5855	94.3	80 - 120	10.07	0.478	20	
Nitrogen, Nitrite (As N)	9.602	0.500	10	0.175	94.3	80 - 120	9.652	0.525	20	
Nitrate/Nitrite (as N)	19.62	1.00	20	0.7605	94.3	80 - 120	19.72	0.501	20	
Sulfate	215.8	2.50	50	166.7	98.2	80 - 120	215.6	0.115	20	

MSD Sample ID: **HS24031405-01MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 11:24**
Client ID: Run ID: **ICS-Integrion_462287** SeqNo: **7909833** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8346	50.0	1000	7525	82.1	80 - 120	8330	0.192	20	O
Fluoride	195.1	10.0	200	0	97.5	80 - 120	199.1	2.03	20	
Nitrogen, Nitrate (As N)	202	10.0	200	7.08	97.4	80 - 120	201.4	0.283	20	
Nitrogen, Nitrite (As N)	193.5	10.0	200	1.26	96.1	80 - 120	193	0.269	20	
Nitrate/Nitrite (as N)	395.5	20.0	400	7.08	97.1	80 - 120	394.4	0.276	20	
Sulfate	1563	50.0	1000	542.9	102	80 - 120	1554	0.601	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462336 (0) **Instrument: WetChem_HS** **Method: SPECIFIC CONDUCTANCE BY E120.1, 1982**

MBLK Sample ID: **MBLK-R462336** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910902** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	ND	5.00								

LCS Sample ID: **LCS-R462336** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910901** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	1275	5.00	1413	0	90.2	80 - 120				

DUP Sample ID: **HS24031429-04DUP** Units: **umhos/cm** Analysis Date: **27-Mar-2024 14:44**
Client ID: Run ID: **WetChem_HS_462336** SeqNo: **7910903** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	2205	5.00					2201	0.182	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462373 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WMBLK-03272024** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: Run ID: **Balance1_462373** SeqNo: **7912078** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	ND	10.0								

LCS Sample ID: **WLCS-03272024** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: Run ID: **Balance1_462373** SeqNo: **7912077** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1016	10.0	1000	0	102	85 - 115				

DUP Sample ID: **HS24031472-07DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 09:07**
Client ID: **Outfall 004** Run ID: **Balance1_462373** SeqNo: **7912071** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1516	10.0					1476	2.67	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462420 (0) **Instrument: UV-2450** **Method: HEXAVALENT CHROMIUM BY SM3500-CR B-2011**

MBLK Sample ID: **MBLK-R462420** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912893** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	0.0200								

LCS Sample ID: **LCS-R462420** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912892** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.243	0.0200	0.25	0	97.2	80 - 120				

MS Sample ID: **HS24031380-01MS** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912899** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.9	1.00	12.5	0	87.2	75 - 125				

MSD Sample ID: **HS24031380-01MSD** Units: **mg/L** Analysis Date: **26-Mar-2024 11:51**
Client ID: Run ID: **UV-2450_462420** SeqNo: **7912898** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.9	1.00	12.5	0	87.2	75 - 125	10.9	0	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462503 (0) **Instrument:** Balance1 **Method:** TOTAL SUSPENDED SOLIDS BY SM 2540D-2011

MBLK Sample ID: **WMBLK-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914338** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	ND	2.50								

LCS Sample ID: **WLCS-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914337** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	98	2.50	100	0	98.0	85 - 115				

DUP Sample ID: **HS24031554-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914331** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	34.89	2.50					31.56	10	20	

DUP Sample ID: **HS24031501-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 13:00**
Client ID: Run ID: **Balance1_462503** SeqNo: **7914327** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Suspended Solids (Residue, Non-Filterable)	40.8	2.50					39.6	2.99	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462546 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **28-Mar-2024 10:57**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915486** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00								
Alkalinity, Carbonate (As CaCO3)	ND	5.00								
Alkalinity, Hydroxide (As CaCO3)	ND	5.00								
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 11:03**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915487** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	919	5.00	1000	0	91.9	85 - 115				
Alkalinity, Total (As CaCO3)	929.9	5.00	1000	0	93.0	85 - 115				

LCSD Sample ID: **LCSD-03282024** Units: **mg/L** Analysis Date: **28-Mar-2024 18:28**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915507** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	877.8	5.00	1000	0	87.8	85 - 115	919	4.59	20	
Alkalinity, Total (As CaCO3)	934.9	5.00	1000	0	93.5	85 - 115	929.9	0.536	20	

DUP Sample ID: **HS24031498-01DUP** Units: **mg/L** Analysis Date: **28-Mar-2024 11:24**
Client ID: Run ID: **Skalar 03_462546** SeqNo: **7915490** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	41.4	5.00					41.1	0.727	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	41.4	5.00					41.1	0.727	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462667 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON - SM5310B-2011**

MBLK Sample ID: **MBLK-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 01:45**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917853** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	1.00								

LCS Sample ID: **LCS-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 02:01**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917854** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.03	1.00	10	0	100	85 - 115				

LCSD Sample ID: **LCSD-03292024** Units: **mg/L** Analysis Date: **30-Mar-2024 02:17**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917855** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.3	1.00	10	0	103	85 - 115	10.03	2.66	20	

MS Sample ID: **HS24031523-01MS** Units: **mg/L** Analysis Date: **30-Mar-2024 03:04**
Client ID: Run ID: **TOC_05_462667** SeqNo: **7917858** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	12.26	1.00	10	2.583	96.8	80 - 120				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462812 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:37**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921369** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.00								
Alkalinity, Total (As CaCO3)	ND	5.00								

LCS Sample ID: **LCS-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:43**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921370** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	979.5	5.00	1000	0	98.0	85 - 115				

LCSD Sample ID: **LCSD-03302024** Units: **mg/L** Analysis Date: **30-Mar-2024 13:50**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921371** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	980.2	5.00	1000	0	98.0	85 - 115	979.5	0.0714	20	

DUP Sample ID: **HS24031722-02DUP** Units: **mg/L** Analysis Date: **30-Mar-2024 14:06**
Client ID: Run ID: **Skalar 03_462812** SeqNo: **7921374** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	163.1	5.00					162.7	0.246	20	
Alkalinity, Total (As CaCO3)	163.1	5.00					162.7	0.246	20	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462910 (0) **Instrument: Balance1** **Method: OIL & GREASE (HEM) BY E1664A**

MBLK Sample ID: **WMBLK-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923958** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	ND	2.00								

LCS Sample ID: **LCS-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923956** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	44.5	2.00	40	0	111	78 - 114				

LCSD Sample ID: **LCSD-04032024** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923957** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	43.7	2.00	40	0	109	78 - 114	44.5	1.81	18	

MS Sample ID: **HS24031525-02MS** Units: **mg/L** Analysis Date: **03-Apr-2024 07:00**
Client ID: Run ID: **Balance1_462910** SeqNo: **7923941** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Oil and Grease	41.7	2.00	40	1.026	102	78 - 114				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R462911 (0) **Instrument:** WetChem_HS **Method:** RESIDUAL CHLORINE BY SM4500CL F-2011

MBLK Sample ID: **MBLK-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923884** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	ND	0.10								

LCS Sample ID: **LCS-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923883** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	85 - 115				

LCSD Sample ID: **LCSD-R462911** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: Run ID: **WetChem_HS_462911** SeqNo: **7923882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	85 - 115	3.1	0	20	

MS Sample ID: **HS24031472-01MS** Units: **mg/L** Analysis Date: **03-Apr-2024 10:45**
Client ID: **Outfall 002** Run ID: **WetChem_HS_462911** SeqNo: **7923885** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlorine	3.1	0.10	3.09	0	100	80 - 120				

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463361 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS24031448-09DUP** Units: **pH Units** Analysis Date: **08-Apr-2024 12:28**
Client ID: Run ID: **Skalar 03_463361** SeqNo: **7933733** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.14	0.100					8.13	0.123	10	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463362 (0) **Instrument:** Skalar 03 **Method:** PH BY SM4500H+ B-2011

DUP Sample ID: **HS24031672-04DUP** Units: **pH Units** Analysis Date: **08-Apr-2024 13:33**
Client ID: Run ID: **Skalar 03_463362** SeqNo: **7933765** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.91	0.100					7.9	0.127	10	

The following samples were analyzed in this batch: HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: HS24031472

QC BATCH REPORT

Batch ID: R463394 (0) **Instrument: WetChem_HS** **Method: CHEMICAL OXYGEN DEMAND BY E410.4, REV 2.0, 1993**

MBLK Sample ID: **MBLK-R463394** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934451** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	ND	15.0								

LCS Sample ID: **LCS-R463394** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934450** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	99	15.0	100	0	99.0	85 - 115				

MS Sample ID: **HS24031444-01MS** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934453** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	59	15.0	50	11	96.0	80 - 120				

MSD Sample ID: **HS24031444-01MSD** Units: **mg/L** Analysis Date: **08-Apr-2024 16:00**
Client ID: Run ID: **WetChem_HS_463394** SeqNo: **7934452** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chemical Oxygen Demand	58	15.0	50	11	94.0	80 - 120	59	1.71	20	

The following samples were analyzed in this batch: HS24031472-01 HS24031472-04 HS24031472-07

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Freeport LNG Development L.P.
Project: Freeport LQF Permit
WorkOrder: **HS24031472**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter
pH units	
UG/L	Micrograms per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

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Sample Receipt Checklist

Work Order ID: HS24031472 **Date/Time Received:** **26-Mar-2024 11:43**

Client Name: Freeport LNG **Received by:** **Si Ma**

Completed By: */S/ Jacob Coronado* 26-Mar-2024 13:18 **Reviewed by:** _____ _____

eSignature Date/Time eSignature Date/Time

Matrices: **w** Carrier name: **Client**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:310352, 310358
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	4.0uc/3.9c, 4.8uc/4.7c, 0.4uc/0.3c	ir31
Cooler(s)/Kit(s):	51123, 51441, 51051	
Date/Time sample(s) sent to storage:	03/26/2024 1320	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Trip Blank received not listed on COC, placed on hold

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Cincinnati, OH
+1 513 733 5336
Everett, WA
+1 425 356 2600
Fort Collins, CO
+1 970 490 1511
Holland, MI
+1 616 399 6070

Chain of Custody Form

COC ID: 310352

HS24031472

Freeport LNG Development L.P.
Freeport LQF Permit

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Need 4100211711	Project Name	Freeport LQF Permit MES 3/26/24	A	624_Wdump (624 (BETX))
Work Order		Project Number		B	200.8 (Permit list) / Cr3 Trivalent Chrom
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.	C	300_W/ Alk/ CL-RS/ Cond/ TDS/ pH/ Cr6
Send Report To	Mary Ellen	Invoice Attn	Accounts Payable	D	BOD 5210B (BOD)/ TSS
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050	E	CBOD (CBOD)
				F	DISS_O 4500-O G (DO)
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002	G	NIT_AMMON_W / COD/ Total Phos
Phone	(979) 415-8754	Phone		H	O&G_1664_W_HS (Oil & Grease (1664))
Fax		Fax		I	TKN_W 4500NH3 D (TKN)
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com	J	TOC_W 5310B (TOC)

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/26/24	07:20	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	Outfall 003	3/26/24	08:32	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	Outfall 004	3/26/24	08:24	Water	1,2,3	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: MARISSA WOOLSEY

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hr [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	03.26.24	11:43	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			SM 03/26/24 11:43
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp.
	4.1 C
S1173	4.0
S1441	4.8
S1051	0.4

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

PRM 3/

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+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 310358

HS24031472

Freeport LNG Development L.P.

Freeport LQF Permit

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Need 4100211711	Project Name	~~Freeport PTF~~ LQF Permit MES 3/26/24	A	CN_W_Available (SUb to Holland)
Work Order		Project Number		B	Sub_MercuryLow (1631 LL Hg)(Sub to Holland))
Company Name	Freeport LNG Development L.P.	Bill To Company	Freeport LNG Development L.P.	C	
Send Report To	Mary Ellen Ballinger	Invoice Attn	Accounts Payable	D	
Address	1500 Lamar Street	Address	333 Clay Street Suite 5050	E F	
City/State/Zip	Quintana, TX 77541	City/State/Zip	Houston TX 77002	G	
Phone	(979) 415-8754	Phone		H	
Fax		Fax		I	
e-Mail Address	MBallinger@FreeportLNG.com	e-Mail Address	accountspayable@freeportLNG.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Outfall 002	3/26/24	07:20	Water	4	13	✓	✓									
2	Outfall 003	3/26/24	08:32	Water	4	13	✓	✓									
3	Outfall 004	3/26/24	08:24	Water	4	13	✓	✓									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Marissa Woosley

Shipment Method:

Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

	Date:	Time:	Received by:
Relinquished by:	03.26.24	11:43	
Relinquished by:	Date:	Time:	Received by (Laboratory): SM 03/26/24 11:43
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Freeport PTF Permit

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

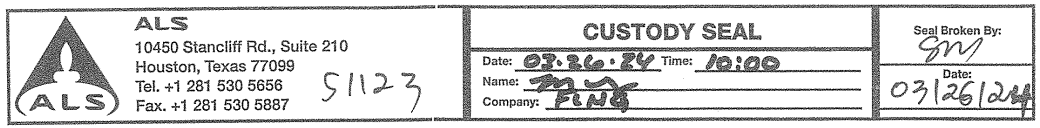
- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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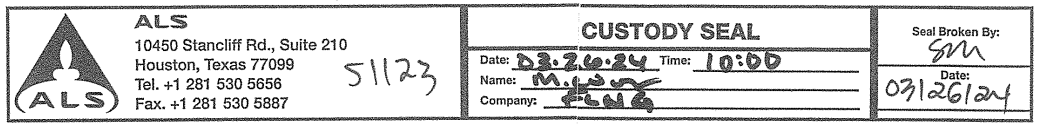
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51123

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51123 MAR 26 2024

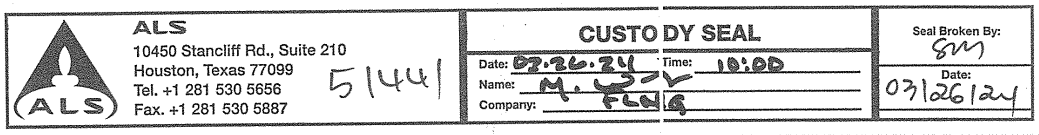


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Fax. +1 281 530 5887

51123

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24



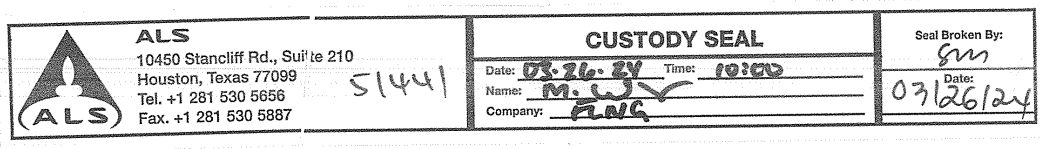
ALS
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51141

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51141 MAR 26 2024

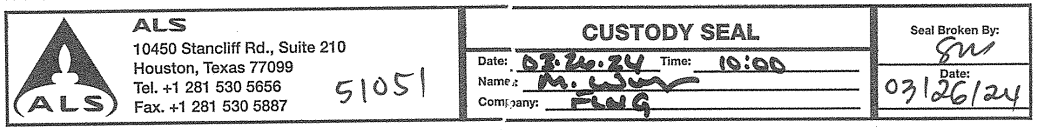


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51141

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24



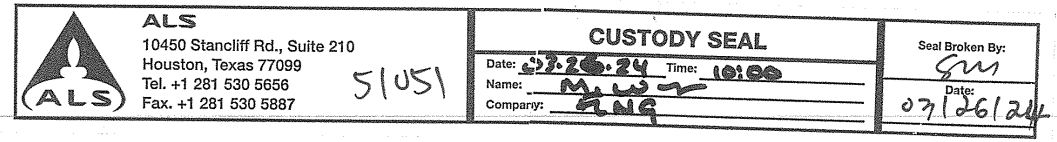
ALS
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Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51051

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

51051 MAR 26 2024



ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

51051

CUSTODY SEAL
Date: 03.26.24 Time: 10:00
Name: M. W
Company: FLNG

Seal Broken By: SM
Date: 03/26/24

RIGHT SOLUTIONS | RIGHT PARTNER

April 09, 2024

Andrew Neir
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

Work Order: **HN2401013**

Re: **HS24031472**

Dear Andrew,
Enclosed are the results of the sample(s) submitted to our laboratory.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to contact me:
ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Chelsey Cook
/S/ CHELSEY COOK

Project Manager

Narrative Documents

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Client: ALS Environmental **Work Order:** HN2401013
Project: HS24031472 **Date Received:** 28-Mar-2024
Sample Matrix: Water

CASE NARRATIVE

Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 28-Mar-2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Inorganics:

No significant anomalies were noted with this analysis.

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SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting limits.

For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: HS24031472-01			Lab ID: HN2401013-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.68		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-02			Lab ID: HN2401013-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.75		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-04			Lab ID: HN2401013-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	6.17		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-05			Lab ID: HN2401013-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	5.75		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-07			Lab ID: HN2401013-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.18		0.200	0.500	ng/L	EPA 1631E

CLIENT ID: HS24031472-08			Lab ID: HN2401013-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Mercury	3.14		0.200	0.500	ng/L	EPA 1631E

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Sample Receipt Information

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SAMPLE SUMMARY

Client: ALS Environmental
Project: HS24031472
Workorder: HN2401013

Laboratory Sample ID	Client Sample ID	Sample Matrix	Collection Date	Date Received
HN2401013-001	HS24031472-01	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-002	HS24031472-02	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-003	HS24031472-03	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-004	HS24031472-04	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-005	HS24031472-05	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-006	HS24031472-06	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-007	HS24031472-07	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-008	HS24031472-08	WATER	03/26/24 07:20	03/28/24 09:00
HN2401013-009	HS24031472-09	WATER	03/26/24 07:20	03/28/24 09:00

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Environmental Division
Holland
Work Order Reference
HN2401013

Telephone : +1 616 399 6070

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

Texas

COC ID: 25144

SUBCONTRACT TO:

ALS Group USA, Corp.
3352 - 128th Ave
Holland, MI 494249263

Phone: +1 616 399 6070

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Andy C. Neir
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	Andrew.Neir@ALSGlobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24031472
TSR:	Houston House Acct

	LAB SAMPLE ID / ANALYSIS REQUESTED	CLIENT SAMPLE ID	MATRIX	COLLECT DATE / DUE DATE
1.	**HS24031472-01**	**Outfall 002**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024
2.	**HS24031472-02**	**Outfall 002 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
3.	**HS24031472-03**	**Outfall 002 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
4.	**HS24031472-04**	**Outfall 003**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024
5.	**HS24031472-05**	**Outfall 003 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
6.	**HS24031472-06**	**Outfall 003 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
7.	**HS24031472-07**	**Outfall 004**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
	CN_W_Available			09 Apr 2024

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Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25144**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
8.	**HS24031472-08**	**Outfall 004 LL Hg Duplicate**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024
9.	**HS24031472-09**	**Outfall 004 LL Hg Field Blank**	**Water**	**26 Mar 2024 07:20**
	1631 LL Hg			09 Apr 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: STD (Laboratory Standard QC: method blank and LCS required)

Relinquished By: AM Date/Time: 3/27/24 18:00

Received By: Caleb Krueger Date/Time: 3-28-24 9:00

Cooler ID(s): Temperature(s): 2.3c

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ALS Holland Sample Receiving Checklist

Received by:	
Date/Time:	03-28-24
Carrier Name:	FedEx
Shipping container/cooler in good condition?	Yes / No / Not Present
Custody seals intact on shipping container/cooler?	Yes / No / Not Present
Custody seals intact on sample bottles?	Yes / No / Not Present
Chain of Custody present?	Yes / No
COC signed when relinquished and received?	Yes / No
COC agrees with sample labels?	Yes / No
Samples in proper container/bottle?	Yes / No
Sample containers intact?	Yes / No
Sufficient sample volume for indicated test?	Yes / No
All samples received within holding time?	Yes / No
Container/Temp Blank temperature in compliance?	Yes / No
Temperature(s) (°C):	2.3c DFZ
Thermometer(s):	DFZ
Sample(s) received on ice?	Yes / No
Matrix/Matrices:	water
Cooler(s)/Kit(s):	1
Date/Time sample(s) sent to storage:	3-28-24
Water – VOA vials have zero headspace?	Yes / No / No Vials
Water – pH acceptable upon receipt?	Yes / No / N/A
pH strip lot #: _____	< 2 _____ > 12 _____ Other _____
pH adjusted (note adjustments below)?	Yes / No / N/A
pH adjusted by:	
Login Notes:	

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Miscellaneous Forms

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REPORT QUALIFIERS AND DEFINITIONS

*	Value exceeds Regulatory Limit (if MCL displayed)
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
V	The Continuing Calibration Verification was outside of control criteria
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Holland Laboratory Certifications[1]

Agency	Type	ID	Issued	Expires
Alabama	Drinking Water (Secondary)	42500	1/1/2024	12/31/2024
Colorado	UST		1/1/2024	6/30/2024
Connecticut	Drinking Water (Secondary)	PH-0155	1/23/2023	12/31/2024
Florida	NELAP (Primary)	E871106	6/28/2023	6/30/2024
Illinois	NELAP (Secondary)	200076	12/14/2023	12/31/2024
Indiana	Drinking Water (Secondary)	C-MI-08	4/4/2024	9/4/2026
Iowa	State Specific	403	9/18/2023	9/1/2025
Kansas	NELAP (Secondary)	E-10411	7/26/2023	7/31/2024
Kentucky	Waste Water	KY98004	12/5/2023	12/31/2024
Kentucky	UST	120474	7/6/2023	6/30/2024
Michigan	Drinking Water (Primary)	0022	12/19/2023	9/4/2026
Minnesota	NELAP (Secondary)	026-999-449	12/29/2023	12/31/2024
New Jersey	NELAP (Secondary)	MI015	6/5/2023	6/30/2024
New York	Drinking Water (Secondary)	12128	3/29/2024	4/1/2025
North Dakota	State Specific	R-192	9/12/2023	6/30/2024
Ohio	Drinking Water (Secondary)	87783	7/5/2023	6/30/2024
Pennsylvania	NELAP (Secondary)	68-03827	12/21/23	7/31/2024
Texas	NELAP (Secondary)	T104704494	2/1/2024	1/31/2025
USDA	Domestic CA	Soil-MI-007	8/21/2023	2/18/2025
USDA	Soil Import	P330-19-00039	3/3/2023	3/3/2026
West Virginia	State Specific	355	8/25/2023	8/31/2024
Wisconsin	State Specific	399084510	8/11/2023	8/31/2024

1 - Scope available upon request

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-01	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-001	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

Sample Name:	HS24031472-02	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-002	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-03	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-003	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-04	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-004	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-05	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-005	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-06	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-006	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

Sample Name:	HS24031472-07	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-007	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz
OIA 1677	1385839	Mike Burkall	2147589	Mike Burkall

Sample Name:	HS24031472-08	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-008	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

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ANALYST SUMMARY

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472		

Sample Name:	HS24031472-09	**Date Collected:**	03/26/24
Laboratory Code:	HN2401013-009	**Date Received:**	03/28/24
Sample Matrix:	WATER		

Analysis Method	Preparation Lot	Prepared By	Analysis Lot	Analyzed By
EPA 1631E	1387930	Kate Achatz	2151509	Kate Achatz

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Sample Results

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Metals

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-01		
Laboratory Code:	HN2401013-001		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.68**	ng/L	0.500	1	04/03/24 12:23	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-02		
Laboratory Code:	HN2401013-002		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.75**	ng/L	0.500	1	04/03/24 12:54	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-03
Laboratory Code: HN2401013-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:02	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-04		
Laboratory Code:	HN2401013-004		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**6.17**	ng/L	0.500	1	04/03/24 13:09	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-05		
Laboratory Code:	HN2401013-005		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**5.75**	ng/L	0.500	1	04/03/24 13:25	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-06		
Laboratory Code:	HN2401013-006		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:33	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-07
Laboratory Code: HN2401013-007

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.18**	ng/L	0.500	1	04/03/24 13:41	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00
Sample Name:	HS24031472-08		
Laboratory Code:	HN2401013-008		

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	**3.14**	ng/L	0.500	1	04/03/24 13:56	04/03/24 10:12	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-09
Laboratory Code: HN2401013-009

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 14:04	04/03/24 10:12	

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General Chemistry

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-01
Laboratory Code: HN2401013-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	03/26/24 07:20
Sample Matrix:	WATER	**Date Received:**	03/28/24 09:00

Sample Name: HS24031472-04
Laboratory Code: HN2401013-004

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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Analytical Report

Client: ALS Environmental
Project: HS24031472/
Sample Matrix: WATER

Work Order: HN2401013
Date Collected: 03/26/24 07:20
Date Received: 03/28/24 09:00

Sample Name: HS24031472-07
Laboratory Code: HN2401013-007

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:45	04/01/24 08:49	

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QC Summary Forms

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Metals

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-001

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 12:15	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-002

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 12:46	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-003

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:17	04/03/24 10:13	

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1387930-004

Metals

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	EPA 1631E	<0.500 U	ng/L	0.500	1	04/03/24 13:48	04/03/24 10:13	

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Collected: 03/26/2024
Date Received: 03/28/2024
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Duplicate Matrix Spike Summary
Metals

Sample Name: HS24031472-01
Laboratory Code: HN2401013-001
Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2151509

	Matrix Spike				Duplicate Matrix Spike					
	QC-1387930-008				QC-1387930-009					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Mercury	3.68	8.94	5	105	8.52	5	96.8	71-125	4.81	24

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Laboratory Control Sample Summary
Metals
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2151509

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1387930-005	5.18	5	104	77-123

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/03/2024
Date Extracted: 04/03/2024

Laboratory Control Sample Summary
Metals
Mercury

Analysis Method: EPA 1631E
Prep Method: Method

Units: ng/L
Analysis Lab Lot: 2152728

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1387930-006	5.19	5	104	77-123

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General Chemistry

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Analytical Report

Client:	ALS Environmental	**Work Order:**	HN2401013
Project:	HS24031472/	**Date Collected:**	NA
Sample Matrix:	WATER	**Date Received:**	NA

Sample Name: Method Blank
Laboratory Code: QC-1385839-001

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Available Cyanide	OIA 1677	<2.00 U	µg/L	2.00	1	04/01/24 13:46	04/01/24 08:50	

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QA/QC Report

Client: ALS Environmental
Project: HS24031472
Sample Matrix: WATER

Work Order: HN2401013
Date Analyzed: 04/01/2024
Date Extracted: 04/01/2024

Laboratory Control Sample Summary
General Chemistry Parameters
Available Cyanide

Analysis Method: OIA 1677
Prep Method: Method

Units: µg/L
Analysis Lab Lot: 2147589

Sample Name	Laboratory Code	Result	Spike Amount	% Rec	% Rec Limits
Laboratory Control Sample	QC-1385839-002	59.3	50	118	82-132

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Appendix E

Application Fee Receipt

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

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

Transaction Information

Trace Number:	582EA000608654
Date:	05/01/2024 09:01 AM
Payment Method:	CC - Authorization 0000070170
ePay Actor:	COREY PERKIN
Actor Email:	cperkin@cecinc.com
IP:	97.77.37.254
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.

Payment Contact Information

Name:	COREY PERKIN
Company:	CIVIL & ENVIRONMENTAL CONSULTANTS
Address:	1221 S MOPAC EXPRESSWAY, AUSTIN, TX 78746
Phone:	512-439-0400

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
703663	WW PERMIT - MINOR FACILITY NOT SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		$300.00
703664	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$350.00

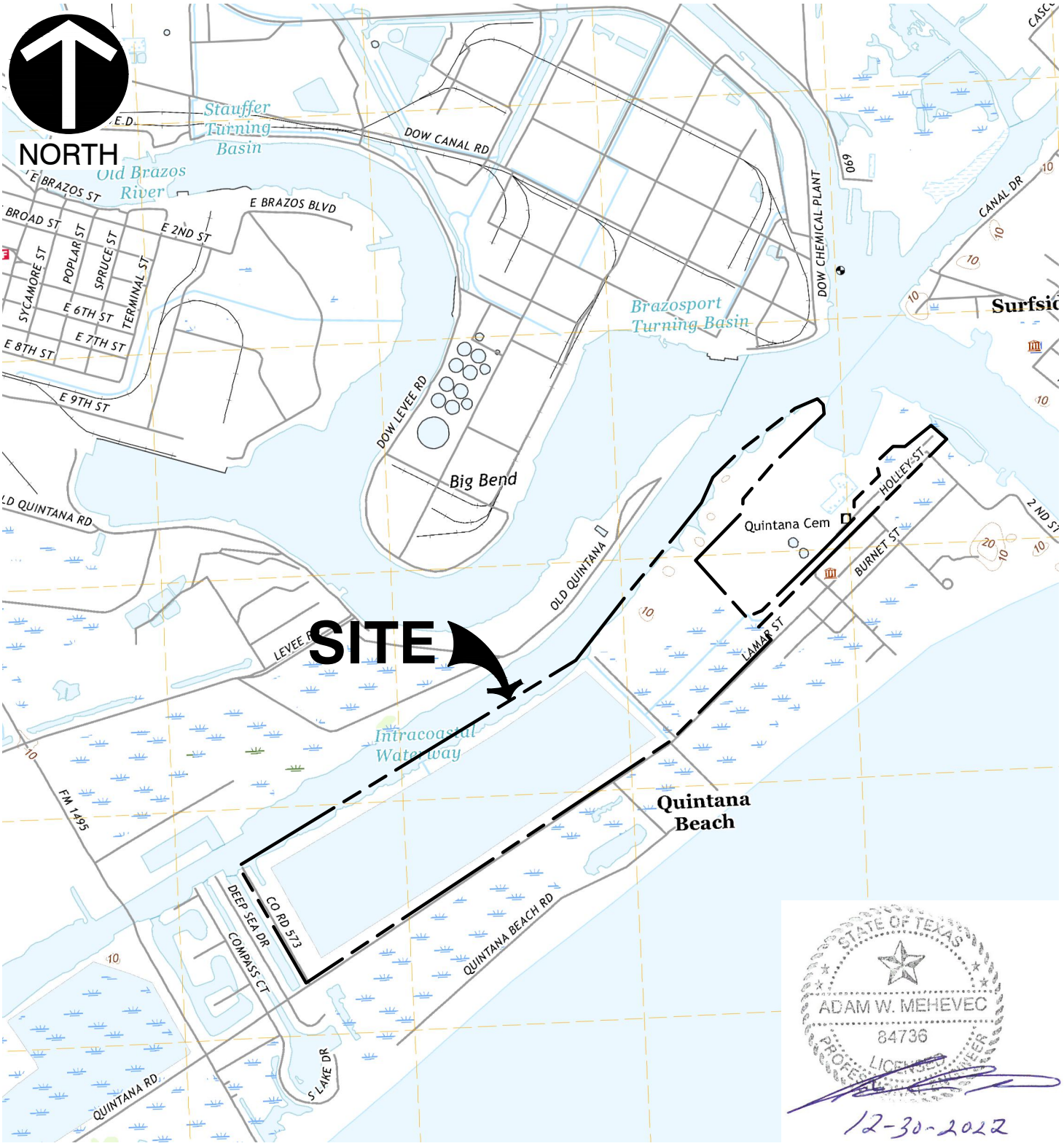
ePay Again | Exit ePay

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

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Appendix F

Figures



STATE OF TEXAS
ADAM W. MEHEVEC
84736
LICENSED
PROFESSIONAL ENGINEER
12-30-2022

REFERENCE

U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAP
FREEPORT, TEXAS; DATED 2022

SCALE IN FEET

0 2,000 4,000

Civil & Environmental Consultants, Inc.
1221 South MoPac Expressway · Suite 350 · Austin, TX 78746
Ph: 512.439.0400 · Fax: 512.329.0096
www.cecinc.com
Texas Registered Engineering Firm F-38

FREEPORT LNG DEVELOPMENT, L.P.
FREEPORT LNG TERMINAL AND LIQUEFACTION FACILITY
QUINTANA, BRAZORIA COUNTY, TX.

LOCATION MAP

DRAWN BY:	JSC	CHECKED BY:	DMR	APPROVED BY:	AWM	FIGURE NO.:	1
DATE:	DECEMBER 2022	DWG SCALE:	1" = 2,000'	PROJECT NO:	317278		

P:\310-000\317-278\-CADD\Dwg\EN02-StormwaterPermitRenewalQF\317278-EN02-LocationMap.dwg{1} LS:(12/21/2022 - jcarter) - LP: 12/30/2022 11:07 AM

NORTH

LEGEND

- APPROXIMATE FACILITY BOUNDARY
- ONE MILE OFFSET FROM FACILITY BOUNDARY
- [3] OUTFALL DRAINAGE AREA
- DRAINAGE PATH TO OUTFALL
- EXTENT OF ONE-HALF MILE UPSTREAM/DOWNSTREAM FLOWS

ONE MILE OFFSET FROM FACILITY BOUNDARY

LQF OUTFALL 005

LQF OUTFALL 007

LQF OUTFALL 008

LQF OUTFALL 009

ONE-HALF MILE

ONE-HALF MILE

LQF OUTFALL 002

LQF OUTFALL 001

LQF OUTFALL 004

LQF OUTFALL 003

LQF OUTFALL 006

ONE MILE OFFSET FROM FACILITY BOUNDARY

REFERENCE

AERIAL IMAGERY
PROVIDER: GOOGLE EARTH; PHOTOGRAPHY DATE: APRIL 27, 2022

STATE OF TEXAS
ADAM W. MEHEVEC
84736
LICENSED
PROFESSIONAL ENGINEER
5-24-24

SCALE IN FEET
0 800 1,600

REVISION RECORD

NO	DATE	DESCRIPTION

Texas Registered Engineering Firm F-38
Civil & Environmental Consultants, Inc.
1221 South MoPac Expressway · Suite 350 · Austin, TX 78746
Ph: 512.439.0400 · Fax: 512.329.0096
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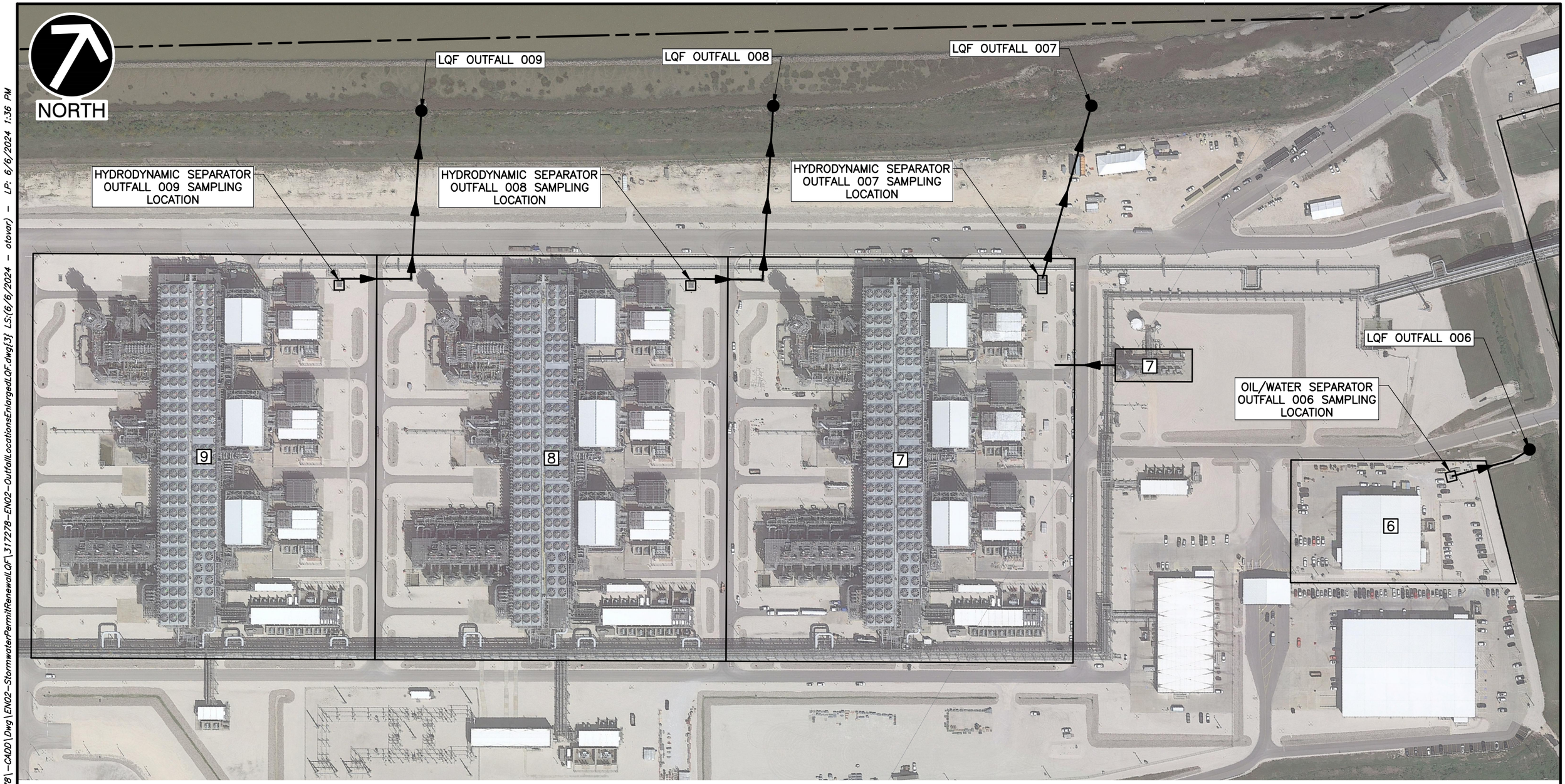
FREEPORT LNG DEVELOPMENT, L.P.
FREEPORT LNG TERMINAL
AND LIQUEFACTION FACILITY
QUINTANA, BRAZORIA COUNTY, TX

OUTFALL LOCATIONS

DATE:	DECEMBER 2022
DRAWN BY:	JSC
DWG SCALE:	1" = 800'
CHECKED BY:	DMR
PROJECT NO.:	317278
APPROVED BY:	AWM

DRAWING NO.:
2

\\cecinc.com\global\Projects\310-000\317-2781-CAD\Dwg\ENG2-StormwaterPermitRenewal\QP\317278-ENG2-OutfallLocationsLQF.dwg[2] LS(2/22/2023 - dfleming) - LP: 2/23/2023 8:57 AM



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- [3] OUTFALL DRAINAGE AREA
- UNDERGROUND DRAINAGE PATH

REFERENCE

AERIAL IMAGERY
PROVIDER: GOOGLE EARTH; PHOTOGRAPHY DATE: APRIL 27, 2022

SCALE IN FEET
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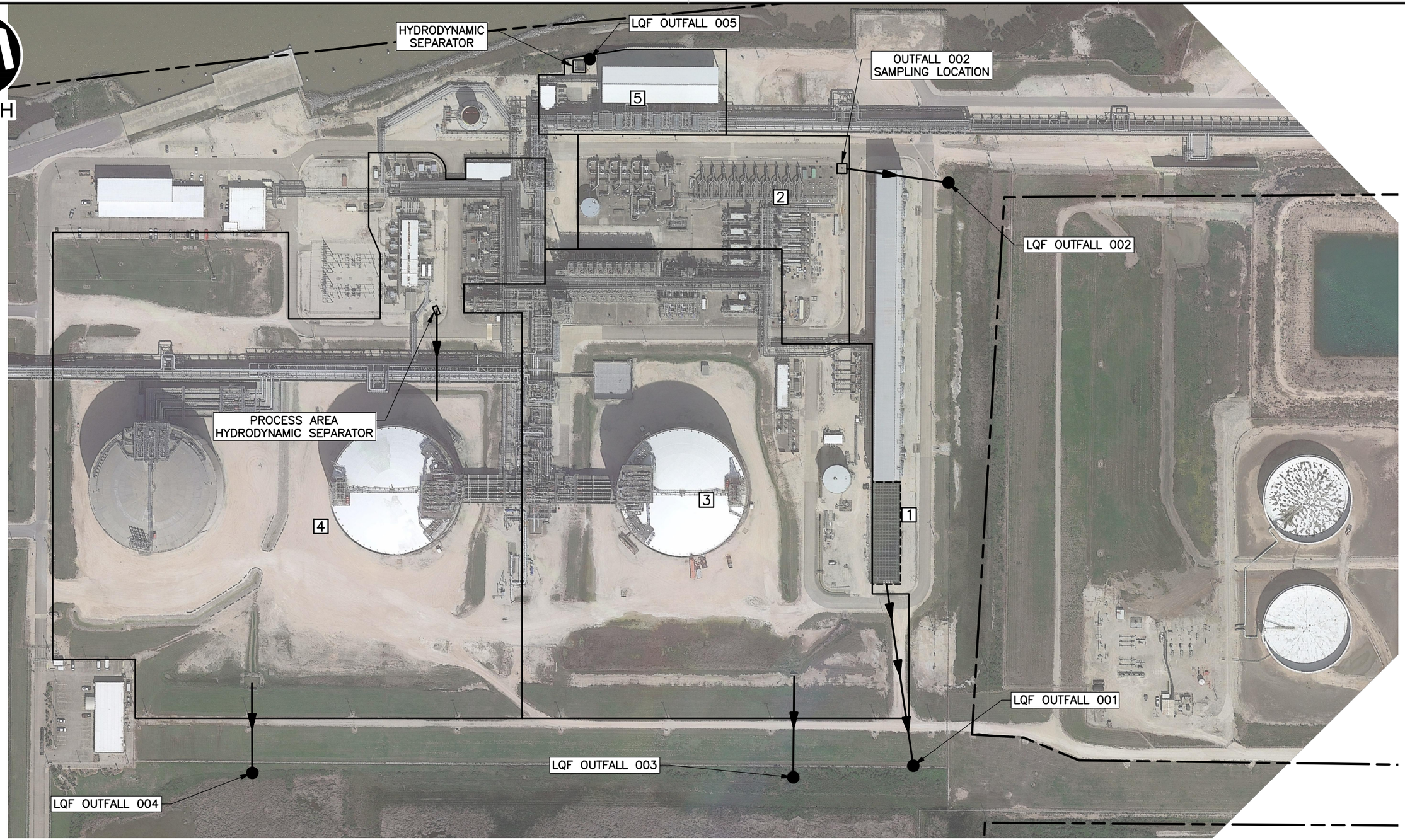
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QUINTANA, BRAZORIA COUNTY, TX.

WESTERN OUTFALLS MAP

DRAWN BY:	OAT	CHECKED BY:	CPP	APPROVED BY:	AWM	FIGURE NO.:	3
DATE:	Jun-24	DWG SCALE:	1" = 200'	PROJECT NO:	317278		

\\cecinc.com\global\Projects\310-000\317-278\-CADD\Dwg\ENO2-StormwaterPermitRenewalLQF\317278-ENO2-OutfallLocationsEnlargedLQF.dwg{3} LS:(6/6/2024 - otovar) - LP: 6/6/2024 1:36 PM



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- [3] OUTFALL DRAINAGE AREA
- UNDERGROUND DRAINAGE PATH

REFERENCE

AERIAL IMAGERY
PROVIDER: GOOGLE EARTH; PHOTOGRAPHY DATE: APRIL 27, 2022

SCALE IN FEET
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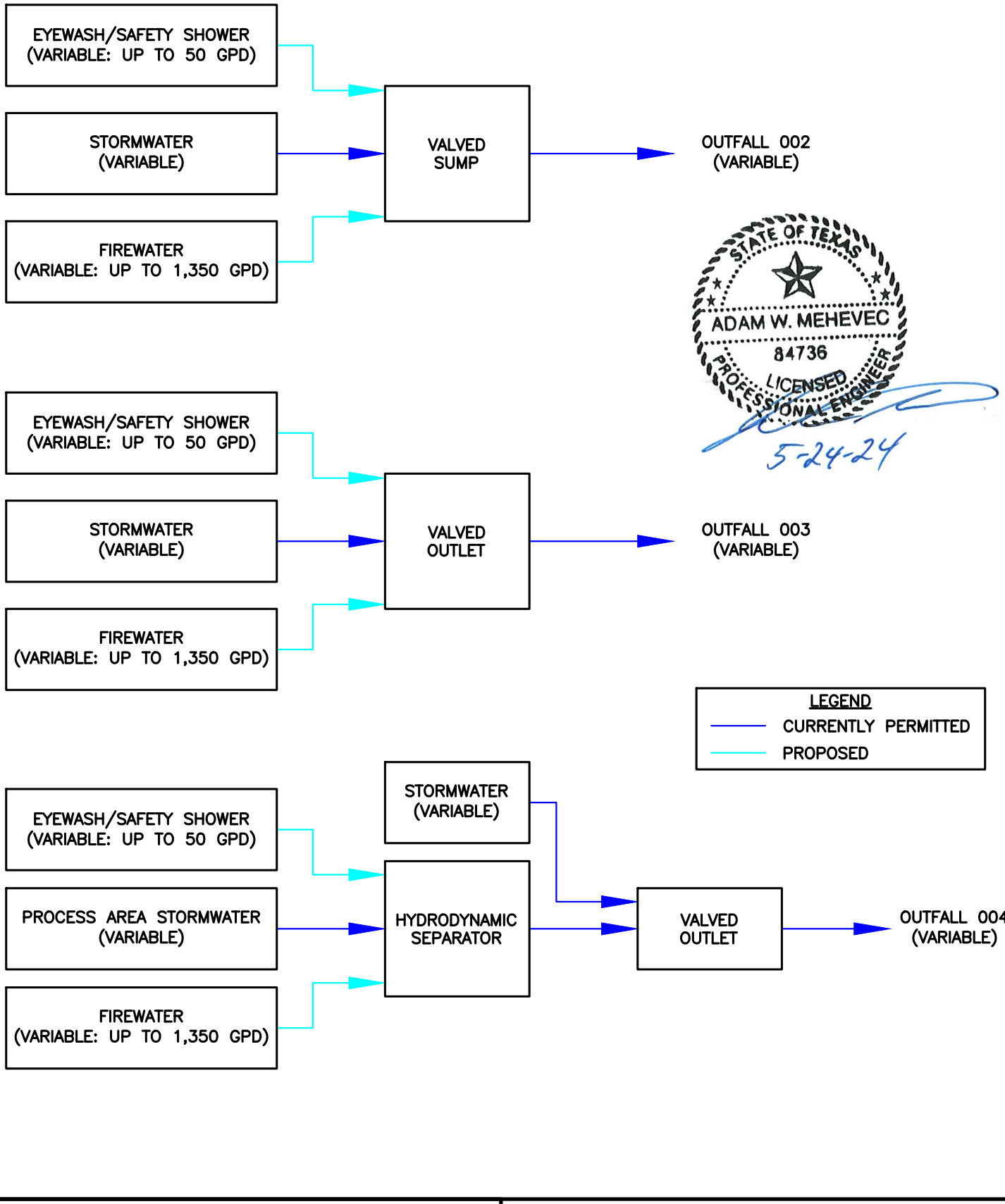
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AND LIQUEFACTION FACILITY
QUINTANA, BRAZORIA COUNTY, TX.

EASTERN OUTFALLS MAP

DRAWN BY:	OAT	CHECKED BY:	CPP	APPROVED BY:	AWM	FIGURE NO.:
DATE:	Jun-24	DWG SCALE:	1" = 200'	PROJECT NO:	317278	4

\\cecinc.com\global\Projects\310-000\317-278\-CADD\Dwg\ENO2-StormwaterPermitRenewalLOF\317278-ENO2-OutfallLocationsEnlargedLOF.dwg[4] LS:(6/6/2024 - otovar) - LP: 6/6/2024 1:37 PM



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FREEPORT LNG DEVELOPMENT, L.P.
FREEPORT LNG TERMINAL
AND LIQUIFACTION FACILITY
QUINTANA, BRAZORIA COUNTY, TX

WATER FLOW SCHEMATICS

DRAWN BY:	ATC	CHECKED BY:	CP	APPROVED BY:	AWM	FIGURE NO.:	5
DATE:	4/30/2024	DWG SCALE:	NTS	PROJECT NO:	317-278		

P:\310-000\317-278\-CADD\Dwg\EN04-Diagrams\317-278 Outfall Diagram.dwg{5} LS:(5/1/2024 - aconti) - LP: 5/2/2024 9:01 AM

Appendix G

Floodplain Documentation

Floodplain Narrative (from FERC environmental permitting documents)

The Liquefaction Project's aboveground facilities at and adjacent to the Terminal will be sited inside a levee system that protects the all of the facilities from storm surges and consequent flooding. The existing levee system consists of three primary components: Velasco Drainage District's sacrificial wave barrier, which extends along the southern site boundary from the eastern tip of the LNG berthing dock to the southeast corner of the LNG storage and vaporization area; Freeport LNG's adjoining non-sacrificial levee, which continues along the southern and western boundary of the LNG storage and vaporization area (and includes the administration building); and Port Freeport's levee that circumvents the former DMPA on the west side of the Terminal site.

The Velasco Drainage District's sacrificial levee is designed to be breached during a major storm surge associated with hurricane activity, thereby absorbing wave energy and reducing the destructive power of water flow and flooding further inland. The principal existing facility immediately behind this levee is the LNG berthing dock; no new Liquefaction Project facilities are proposed at this location.

Freeport LNG's non-sacrificial levee is designed to protect the storage and vaporization facilities at the Terminal site and, like the Velasco Drainage District levee, consists of stabilized clay and reaches an elevation of 21 feet (NAVD 88). The only Liquefaction Project facilities that have been built behind this levee are plant pipeline sections with appurtenant structures, including an LNG pipeline from the liquefaction trains to the third LNG storage tank.

Whereas the Freeport LNG levee was designed and constructed to afford protection to industrial infrastructure, Port Freeport's levee around the former DMPA was designed and constructed to retain dredged material and prevent surface water runoff into adjacent areas. Based on field observations by Fugro (2012a), it is likely composed of dredged material from the same sources as the enclosed fill. The estimated annual rate of subsidence in the Freeport area is currently 0.1 inch; thus, over a 25-year facility lifespan, an approximate 2.5-inch reduction in ground elevation might be expected. Engineering tolerance for this elevation decrease is factored into levee design.

In addition to protection offered by levees, aboveground facilities have been built on raised platforms or constructed at ground elevations sufficient to avoid or minimize flooding hazards. Initial activity at the Liquefaction Plant site involved superficial grading and placement of fill material as necessary to bring the operational footprint to the required elevation (28 feet above msl [NAVD 88]) for aboveground facilities Some segments of the Pipeline/Utility Line System at and adjacent to the Quintana Island Terminal are sited partly within the confines of the levee system and are sited partly along the outer foot of the levee slope. Those segments within the confines of the levee system are installed both above ground and below ground; those segments along the outer foot of the levee slope are installed below ground only. Buried pipelines and utility lines are protected from the physical forces of flood water by virtue of their underground location; in concert with protection afforded by the levee system itself; aboveground sections at the Terminal site are built on raised platforms or racks constructed at elevations sufficient to avoid or minimize flooding hazards.

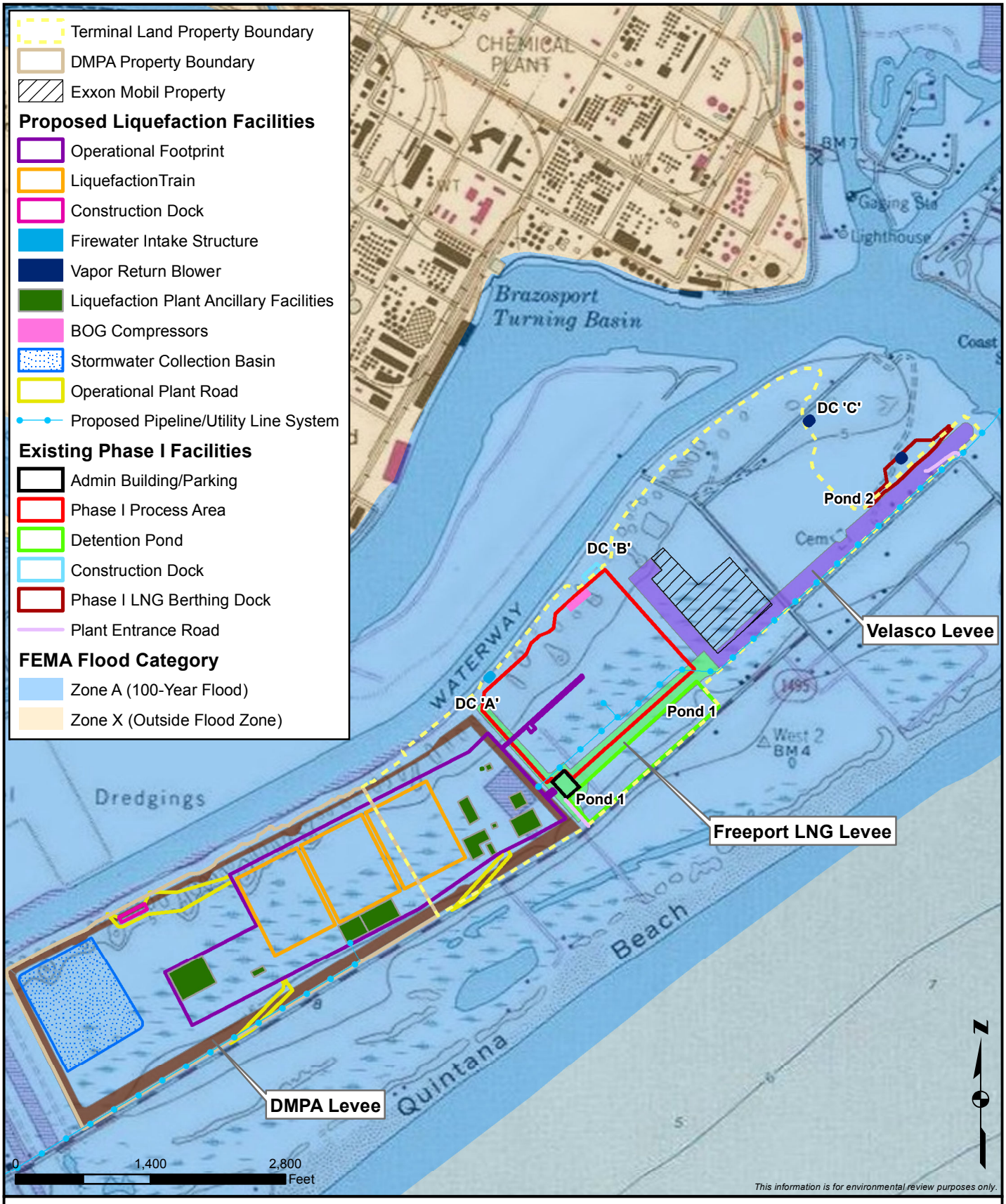


Figure 6.5-3
Freeport LNG - Liquefaction Project
FEMA Flood Zones with Levee Locations at and Adjacent to the Quintana Island Terminal Site
Brazoria County, Texas

M:\Clients\D-F\FRE\Liquefaction_ArcGIS\2012\06\RR_Figures_FRE_RR_6_5_3_NGL_Terminal_FEMA.mxd	1:16,800	REVISED: 08/23/2012	DRAWN BY: JEBAKKEN

Appendix H

Outfall Photographs

Outfall 002 Downstream



Outfall 002 Upstream



Outfall 003 Downstream



Outfall 003 Upstream



Outfall 004 Downstream



Outfall 004 Upstream



Attachment 2

TPDES Permit Section 10 Redline

10. SCHEDULE OF COMPLIANCE FOR WATER QUALITY BASED EFFLUENT LIMITS

The permittee shall comply with the following schedule of activities for the attainment of water quality-based final effluent limitations for total copper at Outfalls 002 and ~~003, 004, 006,~~ 007~~;, 008, and~~ ~~009~~; ~~total silver at Outfalls 004, 006, 007, 008, and 009;~~ total zinc at Outfalls 002, ~~004, 006,~~ 007, ~~008,~~ and 009; and total thallium at Outfall 006:

a. Determine exceedance cause(s);
b. Develop control options;
c. Evaluate and select control mechanisms;
d. Implement corrective action; and
e. Attain final effluent limitations no later than three years from the date of permit issuance.

The permittee shall submit quarterly progress reports in accordance with the following schedule. The requirement to submit quarterly progress reports expires three years from the date of permit issuance.

PROGRESS REPORT DATE
January 1
April 1
July 1
October 1

The quarterly progress reports must include a discussion of the interim requirements that have been completed at the time of the report and must address the progress towards attaining the water quality-based final effluent limitations for total copper at Outfalls 002 and 007; total zinc at Outfalls 002, ~~004, 006,~~ 007~~, 008,~~ and 009; and total thallium at Outfall 006 no later than three years from the date of permit issuance.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause

Leah Whallon

From: Perkin, Corey <cperkin@cecinc.com>
Sent: Monday, July 15, 2024 4:45 PM
To: Leah Whallon
Cc: Annie Winkelmann; Mehevec, Adam
Subject: TCEQ NOD Responses to WQ0005364000 Major Amendment
Attachments: NOD 2024 Transmittal Letter.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Leah,

Please see attached the responses to the Notice of Deficiency and let me know if you have any questions or would like a hard copy in addition to this email submittal.

Thank you,
Corey

Corey P. Perkin | *Assistant Project Manager*
Civil & Environmental Consultants, Inc.
1221 S. MoPac Expressway, Suite 350, Austin, TX 78746
direct 512.225.8102 **office** 512.439.0400 **mobile**
www.cecinc.com



July 15, 2024

Leah Whallon
Application Review and Processing Team, MC 148
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Subject: Application to Amend Permit No.: WQ0005364000 (EPA I.D. No. TX0127566) Applicant Name: Freeport LNG Development, L.P. (CN601720345) Site Name: Freeport LNG Liquefaction Plant (RN103196689) Type of Application: Major amendment (without renewal)

Dear Ms. Whallon,

We have prepared the following responses to your comments provided via email on July 1, 2024. We have repeated each of your comments followed by our response.

1. **Administrative Report 1.0, Item 9.f - TCEQ Form 20972**
   Please provide the completed Plain Language Summary (PLS) in English and Spanish.

   The completed Plain Language Summary (PLS) TCEQ Form 20972 in English and Spanish is included in Attachment 1.

2. **Supplemental Permit Information Form (SPIF) - TCEQ Form 20971**
   Please provide the completed SPIF and attachments.

   The Supplemental Permit Information Form (SPIF) – TCEQ Form 20971 is included in Attachment 2.

3. **Administrative Report 1.1, Affected Landowner Information**
   The affected landowner map does not show and label the applicant's property boundary. Item 10.f of the administrative report 1.0 lists the applicant as the owner of the land where the facility is located.

   Please provide a revised affected landowner map that clearly shows and labels: the applicant's property boundaries (including all contiguous property owned by the applicant), all parcels adjacent to the applicant's property boundaries, and all parcels within one-half mile in each direction along the shoreline of each outfall.

   Please include an updated cross-reference landowner list and the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.

Attachment 3A contains the edited Landowner's Map which includes the applicant's property boundary (including all contiguous property owned by the applicant), all parcels adjacent to the applicant's property boundaries, all parcels within one-half mile in each direction along the shoreline of each outfall, and outfalls 001-009 with their respective discharge routes and flow of water.

Attachment 3B contains the Brazoria County Appraisal District report showing Freeport LNG owns this property and not the Brazos River Harbor Navigation District of Brazoria County.

Attachment 3C contains the updated cross-reference landowner list and the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.

4. **The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.**

   APPLICATION. Freeport LNG Development, L.P., 333 Clay Street, Suite 5050, Houston, Texas 77002, which owns a liquid natural gas terminal and liquefaction facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005364000 (EPA I.D. No. TX0127566) to authorize addition of the following non-stormwater discharges: firewater, safety showers, and eyewash stations to Outfalls 002, 003, and 004. The facility is located at 1500 Lamar Street, near the city of Quintana, in Brazoria County, Texas 77541. The discharge route is from the plant site via Outfalls 001, 003, and 004 to created wetlands, thence to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; via Outfalls 002, 005, 007, 008, and 009 to the Gulf Intracoastal Waterway; and via Outfall 006 to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; thence all to the Gulf of Mexico. TCEQ received this application on June 21, 2024. The permit application will be available for viewing and copying at Freeport Branch Library, 410 North Brazosport Boulevard, Freeport, in Brazoria 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=-95.316666,28.928333&level=18

Further information may also be obtained from Freeport LNG Development, L.P. at the address stated above or by calling Mr. Michael Stephenson at 979-415- 8700.

The portion of the NORI above needed one edit. Mr. Michael Stephenson's title was omitted from the NORI and is included in Attachment 4.

5. **The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.**

   The portion of the NORI in English in NOD Comment No. 4 has been translated into Spanish and is included in Attachment 4.

We appreciate your review and comments on this permit application. Any additional questions or comments can be directed to Corey P. Perkin at cperkin@cecinc.com or Adam W. Mehevec at amehevec@cecinc.com.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Corey Perkin
Assistant Project Manager

Adam Mehevec, PE
Vice President

Enclosures:
Attachment 1 - Plain Language Summary TCEQ Form 20972
Attachment 2 - Supplemental Permit Information Form TCEQ Form 20971
Attachment 3A – Landowner Map
Attachment 3B – Brazoria County Appraisal District Report
Attachment 3C – Landowners Mailing List (Word Document)
Attachment 4 – Portion of the NORI in English and Spanish

cc: Annie Winkelmann, Freeport LNG

ATTACHMENT 1
PLAIN LANGUAGE TCEQ FORM 20972

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Freeport LNG Development, L.P., (CN601720345) operates Freeport LNG Liquefaction Plant (RN103196689), a facility that liquefies pre-treated natural gas and stores the LNG in tanks until it is exported via marine transit. The facility is located at 1500 Lamar Street, in Quintana, Brazoria County, Texas 77541. Freeport LNG is requesting an Industrial Wastewater Permit Major Amendment (without renewal) to propose adding the following non-stormwater discharges: firewater, safety showers, and eyewash stations to outfalls 002, 003, and 004. Freeport LNG is authorized to discharge treated wastewater via Outfall 001 at a volume not to exceed a daily average flow of 757,500 gallons per day and the discharge of treated wastewater and stormwater at an intermittent and-flow-variable rate via Outfalls 002, 003, 004, 005, 006, 007, 008, and 009.

Discharges from the facility are expected to contain condensate generated from the air vaporization tower, and washwater from a washrack used to clean light duty vehicles. Non-stormwater wastestream generation sources include condensate from the boil-off gas compressor and multiple liquefaction compressors, discharges from eyewash stations and emergency showers. Stormwater and wastewater will be treated by hydrodynamic separators (oils, grease, and sediment separators) which treats the stormwater collected from the process area section (North) of the Outfall 004 drainage area. A hydrodynamic separator treats the stormwater, compressor condensate, and firewater system test water discharged from Outfall 005. A hydrodynamic separator treats the stormwater and washwater from a vehicle washrack discharged from Outfall 006. A hydrodynamic separator treats the stormwater, compressor condensate, firewater system test water, and eyewash and safety shower water discharged from Outfall 007. Individual hydrodynamic separators treat the stormwater, compressor condensate, and firewater system test water discharged from Outfalls 008 and 009.

Freeport LNG Development, L.P., (CN601720345) opera Freeport LNG la planta de licuefacción (RN103196689). La instalación que licuefacción gas natural pretratado y lo almacena los LNG en tanques hasta que son exportados vía marítima. La instalación esta ubicada en 1500 Lamar Street, en Quintana, en el Condado de Brazoria en Texas 77541. Freeport LNG ha solicitado una Enmienda Mayor al Permiso de Aguas Residuales Industriales (sin renovación) que propone agregar lo siguiente descargas de agua no pluviales: agua contra incendios, duchas de seguridad y estaciones de lavado de ojos para las vías de desagüe 002,003 y 004. Freeport LNG ha autorizado la descarga de agua de desagüe tratada por la vía de desagüe 001 a un volumen que no exceda el promedio de flujo al día de 757,500 galones por día y que la descarga de agua tratada de residuales y pluviales a un ritmo intermitente y de flujo variable a través del desagüe 002,003,004,005,006,007,008 y 009. Las descargas de la instalación contienen el condensado generado por la torre de vaporización de aire y agua de lavado de una rejilla de lavado utilizada para limpiar vehículos. Las fuentes de generación de aguas residuales no pluviales incluyen el condensado del compresor de gas de ebullición y múltiples compresores de licuefacción, descargas de estaciones de lavado de ojos y duchas de emergencia. Aguas pluviales y residuales serán tratadas por separadores hidrodinámicos (separadores de aceites. Grasas y sedimentos) que trata el agua pluvial recolectada del tramo del área de proceso (Norte) hacia el área de drenaje desagüe 004. Un separador de hidrodinámico que trata las aguas pluviales y el agua de lavado de vehículos con descarga en el desagüe 006. Un separador hidrodinámico que trata el agua pluvial, el condensador del compresor y el agua del sistema de extinción de incendios con descarga en el desagüe 008 y 009.

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

AGUAS RESIDUALES Introduzca ‘INDUSTRIALES’ o ‘DOMÉSTICAS’ aquí **/AGUAS PLUVIALES**

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

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del

menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

INSTRUCTIONS

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

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

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 TAC 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 two-unit 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 to 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 (CN600000000, 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.

ATTACHMENT 2
SUPPLEMENTAL PERMIT INFORMATION FORM 20971

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Freeport LNG Development, L. P.

   Permit No. WQ00 WQ0005364000 EPA ID No. TX TX0127566

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

   1500 Lamar Street, Quintana, TX 77541

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss):

First and Last Name: Annie Winklemann

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

Title: Regulatory Compliance Analyst

Mailing Address: 1500 Lamar Street

City, State, Zip Code: Quintana, TX 77541

Phone No.: 979-415-8746 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: awinkelmann@freeportlng.com

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

N/A

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

Outfalls 001, 003, 004: created wetlands thence to Gulf Intracoastal Waterway, thence to Gulf of Mexico (Segment No. 2501). Outfalls 002, 005, 007, 008, 009: Gulf Intracoastal Waterway, thence to Gulf of Mexico (Segment No. 2501). Outfall 006: West Velasco Ditch thence to Gulf Intracoastal Waterway, thence to Gulf of Mexico (Segment No. 2501).

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment F

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing natural gas liquefaction facilities and marine export terminal

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

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

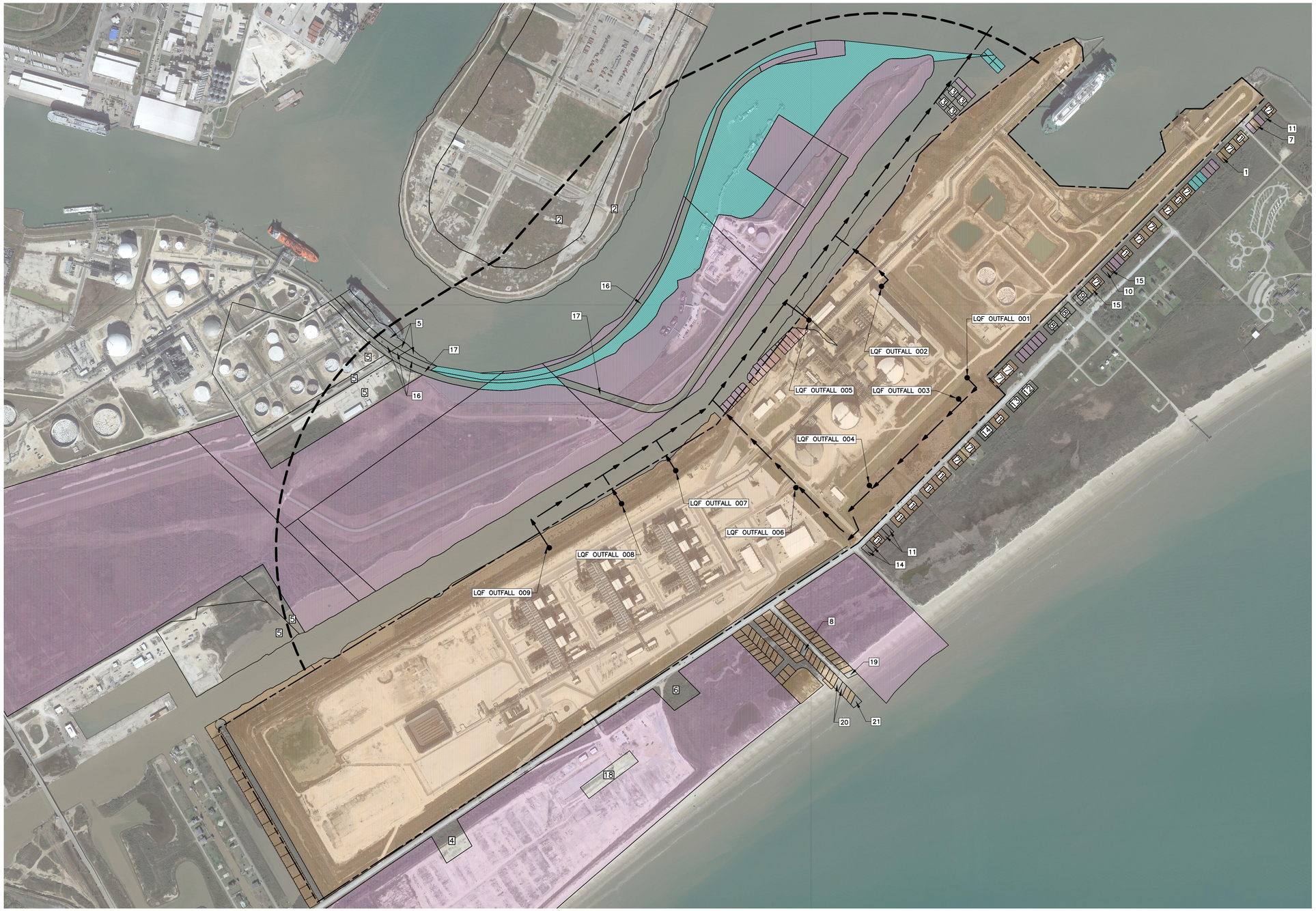
N/A

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

N/A

ATTACHMENT 3A-3C
LANDOWNER MAP, BRAZORIA CAD, LANDOWNERS MAILING LIST

NORTH



LEGEND

- APPROXIMATE FACILITY BOUNDARY
- 1/2 MILE OFFSET FROM OUTFALLS
- DISCHARGE ROUTE FROM OUTFALL
- [3] PARCEL OWNERSHIP INDEX NUMBER
- PARCEL OWNED BY BRAZOS RIVER HARBOR NAVIGATION DISTRICT OF BRAZORIA COUNTY
- PARCEL OWNED BY FREEPORT LNG
- PARCEL OWNERSHIP DATA UNAVAILABLE

NOTE

SEE LANDOWNERS LIST FOR INDIVIDUAL PARCEL INFORMATION.

REFERENCE

AERIAL IMAGERY
PROVIDER: GOOGLE EARTH; PHOTOGRAPHY DATE: JANUARY 16, 2022
PARCELS DATASET:
"STRATMAP21-LANDPARCELS_48039_LP";RETRIEVED FROM TEXAS NATURAL RESOURCES INFORMATION SYSTEM ONLINE DATA PORTAL ON JULY 11, 2024.

SCALE IN FEET
0 500 1000

REVISION RECORD

NO	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
Texas Registered Engineering Firm F-38
3711 South MoPac Expressway · Building 1, Suite 550 · Austin, TX 78746
Ph: 512.439.0400 · Fax: 512.329.0096
www.cecinc.com

FREEPORT LNG DEVELOPMENT, L.P.
FREEPORT LNG TERMINAL
AND LIQUEFACTION FACILITY
1500 LAMAR STREET
CITY OF FREEPORT, BRAZORIA COUNTY, TX.

ADJACENT LANDOWNERS MAP

DRAWING NO.:

DATE:	DEC 2022	DRAWN BY:	JSC
DWG SCALE:	1" = 500'	CHECKED BY:	DMR
PROJECT NO:		317278	
APPROVED BY:			DMR

P:\317\-000\317-278\-CAD\Dwg\LO01-AdjacentLandowners\317278-LO01-AdjacentLandowners(LQF_R1.dwg[LAYOUT1] LS(7/13/2024 - [center] - LP, 7/13/2024 7:26 PM

Map

Unable to determine the physical location of the property. Please contact Brazoria CAD for more information.

Property Details

Account		
Property ID:	600945	**Geographic ID:** POLL-FLNG-001
Type:	Real	**Zoning:**
Property Use:		
Location		
Situs Address:	1500 LAMAR ST QUINTANA, TX	
Map ID:		**Mapsco:** IND
Legal Description:	POLLUTION CONTROL LOT TCEQ EXEMPT EQUIPMENT	
Abstract/Subdivision:	SPOLL - POLLUTION CONTROL	
Neighborhood:		
Owner		
Owner ID:	356404	
Name:	FREEPORT LNG	
Agent:	CUMMINGS WESTLAKE LLC	
Mailing Address:	% PROPERTY TAX DEPARTMENT 333 CLAY ST STE 5050 HOUSTON, TX 77002-4101	
% Ownership:	100.00%	
Exemptions:	PC - Pollution Control For privacy reasons not all exemptions are shown online.	

Property Values

Improvement Homesite Value:	$0 (+)
Improvement Non-Homesite Value:	$24,623,660 (+)

Land Homesite Value:	$0 (+)
Land Non-Homesite Value:	$0 (+)
Agricultural Market Valuation:	$0 (+)
Market Value:	$24,623,660 (=)
Agricultural Value Loss:	$0 (-)
Appraised Value:	$24,623,660 (=)
Homestead Cap Loss:	$0 (-)
Assessed Value:	$24,623,660
Ag Use Value:	$0

Information relating to 2024 should be considered a "work in progress". Prior year data is informational only and does not necessarily replicate the values certified to the tax office.

Information provided for research purposes only. Legal descriptions and acreage amounts are for appraisal district use only and should be verified prior to using for legal purpose and or documents. Please contact the Appraisal District to verify all information for accuracy.

Property Taxing Jurisdiction

Owner: FREEPORT LNG **%Ownership:** 100.00%

Entity	Description	Tax Rate	Market Value	Taxable Value	Estimated Tax	Freeze Ceiling
CAD	BRAZORIA COUNTY APPRAISAL DISTRICT	0.000000	$24,623,660	$24,623,660	$0.00	
DR2	VELASCO DRAINAGE DISTRICT	0.067288	$24,623,660	$0	$0.00	
GBC	BRAZORIA COUNTY	0.270664	$24,623,660	$0	$0.00	
JBR	BRAZOSPORT COLLEGE	0.264831	$24,623,660	$0	$0.00	
NAV	PORT FREEPORT	0.016007	$24,623,660	$0	$0.00	
RDB	ROAD & BRIDGE FUND	0.043284	$24,623,660	$0	$0.00	
SBR	BRAZOSPORT INDEPENDENT SCHOOL DISTRICT	0.953300	$24,623,660	$0	$0.00	

Total Tax Rate: 1.615374

Estimated Taxes With Exemptions: $0.00

Estimated Taxes Without Exemptions: $397,764.20

Property Improvement - Building

Description: MACH & EQUIP **Type:** Commercial **State Code:** F2 **Living Area:** 0.00 sqft **Value:** $24,623,660

Property Roll Value History

Year	Improvements	Land Market	Ag Valuation	Appraised	HS Cap Loss	Assessed
2024	$24,623,660	$0	$0	$24,623,660	$0	$24,623,660
2023	$24,998,640	$0	$0	$24,998,640	$0	$24,998,640
2022	$37,311,400	$0	$0	$37,311,400	$0	$37,311,400
2021	$37,879,590	$0	$0	$37,879,590	$0	$37,879,590
2020	$38,456,440	$0	$0	$38,456,440	$0	$38,456,440
2019	$39,042,070	$0	$0	$39,042,070	$0	$39,042,070
2018	$39,619,570	$0	$0	$39,619,570	$0	$39,619,570
2017	$40,873,610	$0	$0	$40,873,610	$0	$40,873,610
2016	$41,942,110	$0	$0	$41,942,110	$0	$41,942,110
2015	$42,879,810	$0	$0	$42,879,810	$0	$42,879,810
2014	$43,331,780	$0	$0	$43,331,780	$0	$43,331,780

LANDOWNERS LIST

The following table lists the names and mailing addresses of the adjacent and potentially affected landowners around the facility boundary. The list is based on the Brazoria County Appraisal District records (as of JULY 2024).

Number	Name	Address
1	FLIQ COMMON FACILITIES LLC	333 CLAY ST STE 5050 HOUSTON, TX 77002-4101
2	DOW CHEMICAL COMPANY	332 SH 332 E LAKE JACKSON, TX 77566
3	GUNNELS LARRY L	100 LIDO CIRCLE UNIT DE LAKEWAY, TX 78734-5190
4	BRYAN J P EST	PO BOX 136 ANGLETON, TX 77516-0136
5	PHILLIPS 66 COMPANY	PO BOX 421959 HOUSTON, TX 77242-1959
6	LEWIS THOMAS EDWARD	LEWIS JAMES E TRUSTEE *(NO ADDRESS AVAILABLE)*
7	FLNG LAND II INC	333 CLAY ST STE 5050 HOUSTON, TX 77002-4101
8	TOWN OF QUINTANA	814 LAMAR ST FREEPORT, TX 77541-9109
9	CITY OF QUINTANA	2603 FM 1495 RD FREEPORT, TX 77541-9114
10	CRADLE OF TX CONSERVANCY	PO BOX 353 WEST COLUMBIA, TX 77486-0353
11	GONZALES PAUL D TRUST	145 LOST BRIDGE DR PALM BEACH GARDENS, FL 33410-4470
12	GILBERT ERICA	115 S RINGGOLD ST WEST COLUMBIA, TX 77486-3405
13	BYERS TEMPLE STREET MOORE	2708 CENTER RD NACOGDOCHES, TX 75961-5404
14	MASTERS JERRIDAN	807 W 9TH ST FREEPORT, TX 77541-5443
15	FLNG LIQUEFACTION 4	333 CLAY ST STE 5050 HOUSTON TX 77002-4101
16	HOUSTON AND BRAZOS VALLEY	NO MAILING ADDRESS
17	BRAZORIA COUNTY: COURTHOUSE WEST ANNEX	451 N VELASCO ST STE 230 ANGLETON TX 77515-4442
18	PEACOCK ANN MARIE MCGOWEN	NO MAILING ADDRESS
19	MOON BETTYE K	NO MAILING ADDRESS
20	STATE OF TEXAS	PO BOX 1386 HOUSTON TX 77251-1386
21	JOHNSON THOMAS GRANT ESTATE	NO MAILING LIST

FLIQ COMMON FACILITIES LLC
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

GONZALES PAUL D TRUST
145 LOST BRIDGE DR
PALM BEACH GARDENS FL 33410-4470

DOW CHEMICAL COMPANY
332 SH 332 E
LAKE JACKSON TX 77566

GILBERT ERICA
115 S RINGGOLD ST
WEST COLUMBIA TX 77486-3405

GUNNELS LARRY L
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MASTERS JERRIDAN
807 W 9TH ST
FREEPORT TX 77541-5443

PHILLIPS 66 COMPANY
PO BOX 421959
HOUSTON TX 77242-1959

LEWIS THOMAS EDWARD LEWIS
(NO ADDRESS AVAILABLE)

FLNG LAND II INC
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

TOWN OF QUINTANA
814 LAMAR ST
FREEPORT TX 77541-9109

CITY OF QUINTANA
2603 FM 1495 RD
FREEPORT TX 77541-9114

CRADLE OF TX CONSERVANCY
PO BOX 353
WEST COLUMBIA TX 77486-0353

FLNG LIQUEFACTION 4
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

HOUSTON AND BRAZOS VALLEY
(NO ADDRESS AVAILABLE)

BRAZORIA COUNTY: COURTHOUSE WEST ANNEX
451 N VELASCO ST STE 230
ANGLETON TX 77515-4442

PEACOCK ANN MARIE MCGOWEN
(NO ADDRESS AVAILABLE)

MOON BETTYE K
(NO ADDRESS AVAILABLE)

STATE OF TEXAS
PO BOX 1386
HOUSTON TX 77251-1386

JOHNSON THOMAS GRANT ESTATE
(NO ADDRESS AVAILABLE)

FLIQ COMMON FACILITIES LLC
333 CLAY ST STE 5050
HOUSTON TX 77002-4101

GONZALES PAUL D TRUST
145 LOST BRIDGE DR
PALM BEACH GARDENS FL 33410-4470

DOW CHEMICAL COMPANY
332 SH 332 E
LAKE JACKSON TX 77566

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100 LIDO CIRCLE UNIT DE
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PHILLIPS 66 COMPANY
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BRAZORIA COUNTY: COURTHOUSE WEST ANNEX
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PEACOCK ANN MARIE MCGOWEN
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MOON BETTYE K
(NO ADDRESS AVAILABLE)

STATE OF TEXAS
PO BOX 1386
HOUSTON TX 77251-1386

JOHNSON THOMAS GRANT ESTATE
(NO ADDRESS AVAILABLE)

ATTACHMENT 4
PORTION OF THE NORI IN ENGLISH AND SPANISH

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

APPLICATION. Freeport LNG Development, L.P., 333 Clay Street, Suite 5050, Houston, Texas 77002, which owns a liquid natural gas terminal and liquefaction facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005364000 (EPA I.D. No. TX0127566) to authorize addition of the following non-stormwater discharges: firewater, safety showers, and eyewash stations to Outfalls 002, 003, and 004. The facility is located at 1500 Lamar Street, near the city of Quintana, in Brazoria County, Texas 77541. The discharge route is from the plant site via Outfalls 001, 003, and 004 to created wetlands, thence to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; via Outfalls 002, 005, 007, 008, and 009 to the Gulf Intracoastal Waterway; and via Outfall 006 to West Velasco Ditch, thence to the Gulf Intracoastal Waterway; thence all to the Gulf of Mexico. TCEQ received this application on June 21, 2024. The permit application will be available for viewing and copying at Freeport Branch Library, 410 North Brazosport Boulevard, Freeport, in Brazoria 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=-95.316666,28.928333&level=18

Further information may also be obtained from Freeport LNG Development, L.P. at the address stated above or by calling Mr. Michael Stephenson at 979-415-8700

TRANSLATION IN SPANISH:

APLICACIÓN. Freeport LNG Development, L.P., 333 Clay Street, Suite 5050, Houston, Texas 77002, la cual es dueño de instalación de licuefacción y una terminal de gas natural ha aplicado a la Calidad Ambiental de Texas (TCEQ) por sus siglas en ingles para enmendar el permiso del Sistema de Eliminación de Descargas Contaminantes en Texas (TPDES) con numero WQ0005364000 (EPA I.D. No. TX0127566) para autorizar la adición de los siguientes descargas de aguas no pluviales: agua contra incendios, duchas de seguridad y estaciones de lavado de ojos para las vías de desagüe 001,003, y 004 La instalación se encuentra ubicada en 1500 Lamar Street, cerca de la ciudad de Quintana, en el condado de Brazoria, en Texas 77541. La ruta de descarga es desde la planta del sitio con desagüe 002,005,007,008 y 009 hacia el Canal Golfo Intracostero y vía de desagüe 006 hacia la zanja de este del Velasco hacia el Golfo Instracostero, de allí hacia el Golfo de México. La Comisión de Calidad Ambiental del Estado de Texas (TCEQ) ha recibido la aplicación el día 21 de Junio del 2024. La aplicación para el permiso está disponible para ser visto y copiado en Freeport Branch Library, 410 North Brazosport Boulevard, Freeport, en el condado de Brazoria, Texas antes de esta notificación será publicado en el periódico. La aplicación incluye todos las actualizaciones y los avisos asociados se encuentran disponible electrónicamente en el https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

El enlace hacia el mapa electrónico del sitio o de la ubicación general de la instalación se proporciona como una cortesía publica y no es parte de la aplicación o del anuncio. Para la ubicación exacta, favor de referirse a la aplicación https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.316666,28.928333&level=18

Para mayor información se puede obtener en Freeport LNG Development, L.P. en la dirección mencionada o llamando a Mr. Michael Stephenson at 979-415-8700

Fecha de emisión _____