# 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

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# Portada de Paquete Administrativo

**Este archivo contiene los siguientes documentos:**

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Hailiang Copper Texas, Inc. (CN6005607233) operates the Hailiang Facility (RN102411352), a a copper tubing manufacturing facility. The facility is located at 5000 I-10 West, in Sealy, Austin County, Texas 77474. This application is for a major amendment with renewal for a permit to discharge treated wastewater at a volume not to exceed 395,000 gallons per day via Outfall 001, 201, and 301 .

Discharges from the facility are expected to contain Total suspended solids (TSS), E. coli, oil and grease, Alkaline and acidic wastewater (3 – 11 S.U.), organic material (COD), hexavalent chromium, phosphorus, chromium, ammonia, copper, sulfide, lead, and zinc. Industrial wastewater will be treated by the following treatment process: Industrial wastewater is collected in a holding tank. The water passes through an oil-water separator and then enters an air flotation tank where coagulants are added, and floating sludge is removed. The wastewater then enters an electrocoagulation unit which generates ferrous ions. These ions are oxidized in an aeration tank then the wastewater enters a precipitation unit where the

metal ions and suspended solids are removed. The wastewater then enters the electrocatalytic oxidation unit, which attacks organic pollutants using hydroxyl radicals. The wastewater then goes through a secondary coagulation and sedimentation unit before entering the membrane bioreactor system (MBR). This system uses an anaerobic and aerobic treatment process to fully oxidize and decompose organic materials and ammonia nitrogen. The MBR generates activated sludge, most of which is recycled, and the remaining is sent to the sludge treatment process. The wastewater then undergoes ultraviolet disinfection before entering a storage tank and then a sand and carbon filtration system. After the sand and carbon filtration, the wastewater is stored in a raw water tank before entering the reverse osmosis (RO) system. The RO system uses osmotic pressure to force water through a membrane while keeping the solutes in a concentrated state on the other side. The permeated pure water is recycled back into the industrial process. The RO non-permeable concentrate is further treated via Fenton Fluidized Bed Technology to treat organic matter and then undergoes one last precipitation reaction before being discharged to Outfall 201. The treated wastewater flows to the detention pond and then to the retention pond before finally discharging via Outfall 001. Industrial sludge is collected in a sludge collection tank where it then enters a plate and frame filter press for drying before disposal. The water generated from the filter press enters the acid-washing wastewater tank, which feeds into the MBR. Domestic wastewater will be treated by the following treatment process: Wastewater is collected in a holding tank. The water from the tank passes through a bar screen and into an extended aeration basin. The partially treated water from the basin flows into the clarifier, where the solids are removed and placed in a sludge-thickening chamber. The cleaned water from the clarifier is processed through a chlorine contact chamber as a final treatment before discharge at Outfall 301, which then flows to Outfall 001. Larger suspended solids directly precipitate and flow through the sludge discharge pipe, after which they are discharged to the sludge tank. For smaller suspended solids, a mix flotation system along with a coagulative precipitation tank and bacteria filter is used to treat the wastewater. Afterward, it flows to the retention pond at the Facility and is discharged out of Outfall 001.

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

**AGUAS RESIDUALES** INDUSTRIALES **/AGUAS PLUVIALES**

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

Hailiang Copper Texas, Inc. (CN6005607233) opera las instalaciones de Hailiang (RN102411352), un Planta de fabricación de tubos de cobre. La instalación está ubicada en 5000 I-10 West, en Sealy, Condado de Austin, Texas 77474. Esta solicitud es para una enmienda importante con la renovación de un permiso para descargar aguas residuales tratadas a un volumen que no exceda los 395,000 galones por día a través de los desagües 001, 201 y 301. *<<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 Sólidos suspendidos totales (TSS), E. coli, aceites y grasas, aguas residuales alcalinas y ácidas (3 – 11 S.U.), material orgánico (COD), cromo hexavalente, fósforo, cromo, amoníaco, cobre, sulfuro, plomo y zinc. Aguas residuales industriales. estará tratado por el siguiente proceso de tratamiento: Las aguas residuales industriales se recogen en un tanque de retención. El agua pasa a través de un separador de agua y aceite y luego ingresa a un tanque de flotación de aire donde se agregan coagulantes y se eliminan los lodos flotantes. A continuación, las aguas residuales entran en una unidad de electrocoagulación que genera iones ferrosos. Estos iones se oxidan en un tanque de aireación, luego las aguas residuales ingresan a una unidad de precipitación donde se eliminan los iones metálicos y los sólidos en suspensión. A continuación, las aguas residuales entran en la unidad de oxidación electrocatalítica, que ataca los contaminantes orgánicos mediante radicales hidroxilo. A continuación, las aguas residuales pasan por una unidad secundaria de coagulación y sedimentación antes de entrar en el sistema de biorreactor de membrana (MBR). Este sistema utiliza un proceso de tratamiento anaeróbico y aeróbico para oxidar y descomponer completamente los materiales orgánicos y el nitrógeno amoniacal. El MBR genera lodos activados, la mayoría de los cuales se reciclan, y el resto se envía al proceso de tratamiento de lodos. Luego, las aguas residuales se someten a una desinfección ultravioleta antes de ingresar a un tanque de almacenamiento y luego a un sistema de filtración de arena y carbón. Después de la filtración de arena y carbón, las aguas residuales se almacenan en un tanque de agua cruda antes de ingresar al sistema de ósmosis inversa (RO). El sistema de ósmosis inversa utiliza la presión osmótica para forzar el agua a través de una membrana mientras mantiene los solutos en un estado concentrado en el otro lado. El agua pura permeada se recicla de nuevo en el proceso industrial. El concentrado no permeable de ósmosis inversa se trata aún más a través de la tecnología de lecho fluidizado de Fenton para tratar la materia orgánica y luego se somete a una última reacción de precipitación antes de ser descargado en el desagüe 201. Las aguas residuales tratadas fluyen hacia el estanque de retención y luego al estanque de retención antes de descargarse finalmente a través del emisario 001. Los lodos industriales se recogen en un tanque de recolección de lodos donde luego ingresan a un filtro prensa de placa y marco para su secado antes de su eliminación. El agua generada por el filtro prensa ingresa al tanque de aguas residuales de lavado ácido, que alimenta el MBR. Las aguas residuales domésticas se tratarán mediante el siguiente proceso de tratamiento: Las aguas residuales se recogen en un tanque de retención. El agua del tanque pasa a través de una pantalla de barra y entra en una cuenca

de aireación extendida. El agua parcialmente tratada de la cuenca fluye hacia el clarificador, donde los sólidos se eliminan y se colocan en una cámara de espesamiento de lodos. El agua limpia del clarificador se procesa a través de una cámara de contacto con cloro como tratamiento final antes de la descarga en el desagüe 301, que luego fluye al desagüe 001. Los sólidos suspendidos más grandes precipitan y fluyen directamente a través de la tubería de descarga de lodos, después de lo cual se descargan al tanque de lodos. Para los sólidos suspendidos más pequeños, se utiliza un sistema de flotación de mezcla junto con un tanque de precipitación coagulativo y un filtro de bacterias para tratar las aguas residuales. Posteriormente, fluye hacia el estanque de retención de la instalación y se descarga desde el desagüe 001..

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

**PERMIT NO. WQ0002462000**

**APPLICATION.** Hailiang Copper Texas Inc, 1142 South Diamond Bar Boulevard, Suite 370, Diamond Bar, California 91765, which owns an industrial park and copper tubing manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002462000 (EPA I.D. No. TX0085936) to authorize the addition of a new copper pipe fitting process that will generate process wastewater**.** The facility is located at 5000 Interstate Highway 10, in the city of Sealy, Austin County, Texas 77474. The discharge route is from the plant site to a drainage ditch, thence to Little Bernard Creek, thence to East Bernard Creek, thence to San Bernard Creek Above Tidal. TCEQ received this application on October 7, 2024. The permit application will be available for viewing and copying at Sealy City Hall, 415 Main Street, Sealy, in Austin County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.218611,29.76&level=18

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

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

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a

public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

Further information may also be obtained from Hailiang Copper Texas Inc at the address stated above or by calling Mr. Jonathan Martensen, Consolidated Asset Management Services, Inc., at 713-457-5232.

Issuance Date: October 31, 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. WQ0002462000**

**SOLICITUD.** Hailiang Copper Texas Inc, 1142 South Diamond Bar Boulevard, Suite 370, Diamond Bar, California 91765, propietaria de un parque industrial y una planta de fabricación de tubos de cobre, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0002462000 (EPA I.D. No. TX 0085936) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de un nuevo proceso de instalación de tuberías de cobre que generará aguas residuales de proceso. La planta está ubicada 5000 Interstate Highway 10, Sealy en el Condado de Austin, Texas 77474. La ruta de descarga es del sitio de la planta a una zanja de drenaje, de allí a Little Bernard Creek, de allí a East Bernard Creek, de allí a San Bernard Creek Above Tidal. La TCEQ recibió esta solicitud el día 7 de octubre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Ayuntamiento de Sealy, 415 Main Street, Sealy, en el condado de Austin, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.218611,29.76&level=18

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

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

**COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar

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

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

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

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

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas

correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado 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 Hailiang Copper Texas Inc a la dirección indicada arriba o llamando a Mr. Jonathan Martensen, Consolidated Asset Management Services, Inc., al 713-457-5232.

Fecha de emisión el 31 de octubre de 2024

## Leah Whallon

**From:** Thomas Newhouse <tnewhouse@camstex.com>
**Sent:** Monday, October 21, 2024 11:18 AM
**To:** Jonathan Martensen; Leah Whallon; dennis.zurek@hailiangusa.com
**Subject:** RE: Application to Amend Permit No. WQ0002462000; Hailiang Copper Texas Inc
**Attachments:** 1 & 2 - Hailiang Copper WQ0002462000 TPDES Renewal with Amendment - Final.pdf; 3 - Affected Landowner Table.xlsx; 3 - Merged Document - Avery Labels - Affected Landowners.docx; 5 - Industrial Discharge Amendment Spanish NORI.docx

**Follow Up Flag:** Follow up
**Flag Status:** Flagged

Hello Leah,

My name is Thomas Newhouse, I work for CAMS and am assisting with Hailiang's TPDES amendment. Please include me in future emails regarding Hailiang's Amendment.

Issues identified in the NOD were resolved and corresponding documents are attached to this email. Please find the NOD items and associated attachment names listed below.

1. Core Data Form, Section V – Signature needed
    a. "1 & 2 - Hailiang Copper WQ0002462000 TPDES Renewal with Amendment - Final"
2. Administrative Report 1.0, Item 13 – Signature needed
    a. "1 & 2 - Hailiang Copper WQ0002462000 TPDES Renewal with Amendment - Final"
3. Administrative Report 1.1, Item 1.b – Affected Landowners Avery Labels needed
    a. "3 - Merged Document - Avery Labels - Affected Landowners"
    b. "3 - Affected Landowner Table"
4. English NORI confirmation
    a. The NORI looks good, no errors or omissions noted.
5. Spanish NORI
    a. "5 - Industrial Discharge Amendment Spanish NORI"

Please let me know if you have any questions.

Thank you,

CAMS
Consolidated Asset Management Services

**Thomas Newhouse**
Environmental Associate I
Consolidated Asset Management Services
Work: 713.358.9748
Cell: 281.685.3504
tnewhouse@camstex.com
910 Louisiana St, Ste 2400, Houston, Texas 77002
www.camstex.com

**From:** Jonathan Martensen <jmartensen@camstex.com>
**Sent:** Thursday, October 17, 2024 11:15 AM
**To:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>; dennis.zurek@hailiangusa.com; Thomas Newhouse <tnewhouse@camstex.com>
**Subject:** RE: Application to Amend Permit No. WQ0002462000; Hailiang Copper Texas Inc

Thank you, we have received your Notice of Deficiency letter. We are reviewing now and will provide a prompt response for the additional items, corrections, and verifications you noted.

Regards,

**Jonathan Martensen**
Senior Environmental Associate I
Office: 713-457-5232 | Cell: 936-524-0819

**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
**Sent:** Thursday, October 17, 2024 10:58 AM
**To:** dennis.zurek@hailiangusa.com
**Cc:** Jonathan Martensen <jmartensen@camstex.com>
**Subject:** Application to Amend Permit No. WQ0002462000; Hailiang Copper Texas Inc



Good Morning,

Please see the attached Notice of Deficiency letter dated October 17, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by October 31, 2024.

Please let me know if you have any questions.

Thank you,

**Leah Whallon**
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at //www.tceq.texas.gov/customersurvey

910 Louisiana St, Suite 2400
Houston, TX 77002
(P) (713) 358-9700
camsesparc.com

October 07, 2024 Sent via *FedEx*

Executive Director
Applications Review and Processing Team MC-148
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Subject: Hailiang Copper Texas Inc
CN605607233
RN102411352
Permit No. WQ0002462000

Dear Applications Team,

On behalf of Hailiang Copper Texas Inc, CAMS eSPARC, LLC ("eSPARC") is submitting this Texas Pollutant Discharge Elimination System ("TPDES") application for renewal with amendment of Permit No. WQ0002462000 at Hailiang Copper Texas Inc ("Hailiang" or "the Facility"). The Facility plans to introduce a new pipe-fitting industrial process, which will require the discharge of process wastewater in the amount of around 1,749.2 gallons per day.

Please note that due to the outstanding renewal application in STEERS, this application is being submitted physically and electronically via the FTPS site. Hailiang requests that the existing application be withdrawn and replaced with this application with amendment upon receipt.

eSPARC contacted Mr. Alexander Owens at the TCEQ for assistance with this process. Mr. Owens advised that sampling information obtained for the previous renewal application would be sufficient for the purpose of this application, and subsequent sampling will occur after the addition of the new pipe-fitting process.

Enclosed with this transmittal letter is the original copy of the application.

An electronic payment in the amount of $1250 was submitted to TCEQ via ePay. The ePay Trace Number, Voucher Number and a copy of the payment receipt are included with this application.

Please contact me at 713-358-9748 or tnewhouse@camstex.com if you have any questions or need additional information.

Sincerely,

*Thomas Newhouse*

Thomas Newhouse
CAMS eSPARC, LLC

CC:
Mr. Lucian Hill, Environmental Director, CAMS eSPARC, lhill@camstex.com
Mr. Dennis Zurek, Property Manager, Hailaing, Dennis.Zurek@Hailiangusa.com

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Hailiang Copper Texas Inc

PERMIT NUMBER (If new, leave blank): WQ00 0002462000

**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: Hailiang Copper Texas Inc

Permit No.: WQ0002462000

EPA ID No.: TX0085936

Expiration Date: 07/11/2024

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: Addition of a new copper pipe fitting process that will generate process wastewater from the cleaning of the fittings. A new IWTP will be installed as well. There will be a small increase in water usage and additional pollutants in the effluent profile.

For TCEQ Use Only

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

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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: 582EA000628227

Copy of voucher attachment: **A – TCEQ Voucher Payment**

## Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN605607233

**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: Hailiang Copper Texas Inc

**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): Hu Wang

Title: President Credential: Click to enter text.

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

☒ Yes ☐ No

[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

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: **B – Core Data Form**

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

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

a. ☒ Administrative Contact . ☐ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Dennis Zurek Jr

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: Consolidated Asset Management Services, Inc

Mailing Address: 910 Louisiana Street, Suite 2500 City/State/Zip: Houston/TX/77002

Phone No: 713-457-5232 Email: jmartensen@camstex.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: Ms. Full Name (Last/First Name): Ranee Cheng

Title: Secretary Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-977-3090 Email: raneec@hailiangusa.com

b. Prefix: Mr. Full Name (Last/First Name): Dennis Zurek

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.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: Ms. Full Name (Last/First Name): Ranee Chang

Title: Secretary Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 Diamond Bar Blvd City/State/Zip: CA

Phone No: 626-297-2992 Email: raneec@hailiangusa.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): Dennis Zurek Jr

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.com

## Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: CAMS

Mailing Address: 910 Louisiana St, STE 2500 City/State/Zip: Houston/TX/77002

Phone No: 713-457-5232 Email: jmartensen@camstex.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: jmartensen@camstex.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): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: CAMS

Phone No: 713-457-5232 Email: jmartensen@camstex.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: Sealy City Hall Location within the building: Public Notice Board

Physical Address of Building: 415 Main Street

City: Sealy County: Austin

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: **C – Plain Language Summary**

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

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN102411352

**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): Hailiang Copper Texas Inc

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: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-297-2992 Email: raneec@hailiangusa.com

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

f. Owner of land where treatment facility is or will be: Hailiang Copper Texas Inc

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

or Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-297-2992 Email: raneec@hailiangusa.com

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

g. Owner of effluent TLAP disposal site (if applicable): Click to enter text.

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

or Organization Name: Click to enter text.

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

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

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

☐ Yes ☒ No

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

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

Attachment: **E – USGS Topographic Map**

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

☒ Yes ☐ No or New Permit

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

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

☐ Yes ☒ No or New Permit

If no, or a new application, provide an accurate location description: Final point of discharge correct. New internal outfall being used, located at new IWTP.

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: The new wastewater treatment plant will discharge to a drainage ditch which feeds a detention pond in the northeast portion of the site. From here water is pumped to another swale, ultimately leading to the retention pond and final outfall 001 on the southern end of the site.

f. City nearest the outfall(s): Sealy

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

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: **F – Authorization to Discharge**

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: Click to enter text.

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

☐ Yes No or New Permit ☐ Click to enter text.

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

j. City nearest the disposal site: Click to enter text.

k. County in which the disposal site is located: Click to enter text.

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

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

## 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: WQ0002462000

Applicant Name: Hailiang Copper Texas Inc

Certification: I, Hu Wang, 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): Hu Wang

Signatory title: President

Signature: Wang Hu (Use blue ink) Date: 9/19-2024

Subscribed and Sworn to before me by the said Wang Hu

on this 19th day of September, 20 24.

My commission expires on the 28th day of May, 20 25.

Debra Zurek
Notary Public

Wharton
County, Texas

[SEAL]
DEBRA ZUREK
Notary ID #7599967
My Commission Expires
May 28, 2025

**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: **G – Affected Landowner Map**

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

☒ Readable/Writeable CD ☐ Four sets of labels

Attachment: **H – Cross Reference List**

d. Provide the source of the landowners' names and mailing addresses:
https://esearch.austincad.org/

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: **I – Original Photographs and Map**

# 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: J - SPIF**

# ATTACHMENT A
# TCEQ ePay Voucher

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 724358 |
| **Trace Number:** | 582EA000628227 |
| **Date:** | 10/07/2024 02:46 PM |
| **Payment Method:** | CC - Authorization 0000007413 |
| **Voucher Amount:** | $1,200.00 |
| **Fee Type:** | WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT |
| **ePay Actor:** | GEORGE NEWHOUSE |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | THOMAS NEWHOUSE |
| **Company:** | CAMS TEXAS LLC |
| **Address:** | 910 LOUISIANA ST STE 2400, HOUSTON, TX 77002 |
| **Phone:** | 713-358-9748 |

**Site Information**

| | |
|---|---|
| **Site Name:** | HAILIANG COPPER TEXAS INC |
| **Site Address:** | 5000 I-10 W, SEALY, TX 77474 |
| **Site Location:** | 5000 I-10 W SEALY TX 77474 |

**Customer Information**

| | |
|---|---|
| **Customer Name:** | HAILIANG COPPER TEXAS INC |
| **Customer Address:** | 1142 S DIAMOND BAR BLVD STE370, DIAMOND BAR, CA 91765 2203 |
| **State Tax ID:** | 32068710592 |

**Other Information**

| | |
|---|---|
| **Program Area ID:** | 0002462000 |
| **Comments:** | Renewal is in process, this will replace renewal. |

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 724359 |
| **Trace Number:** | 582EA000628227 |
| **Date:** | 10/07/2024 02:46 PM |
| **Payment Method:** | CC - Authorization 0000007413 |
| **Voucher Amount:** | $50.00 |
| **Fee Type:** | 30 TAC 305.53B WQ NOTIFICATION FEE |
| **ePay Actor:** | GEORGE NEWHOUSE |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | THOMAS NEWHOUSE |
| **Company:** | CAMS TEXAS LLC |
| **Address:** | 910 LOUISIANA ST STE 2400, HOUSTON, TX 77002 |
| **Phone:** | 713-358-9748 |

# ATTACHMENT B
## Core Data Form

TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

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

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

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

| 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 605607233 | | RN 102411352 |

## SECTION II: Customer Information

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

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

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

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

Hailiang Copper Texas Inc

| 7. TX SOS/CPA Filing Number | 8. TX State Tax ID (11 digits) | 9. Federal Tax ID (9 digits) | 10. DUNS Number *(if applicable)* |
|---|---|---|---|
| 803146085 | 32068710592 | 832271146 | |

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

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

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

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

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

**15. Mailing Address:**

1142 S Diamond Bar Blvd, STE 370

| City | Diamond Bar | State | CA | ZIP | 91765 | ZIP + 4 | 2203 |
|---|---|---|---|---|---|---|---|

| 16. Country Mailing Information *(if outside USA)* | 17. E-Mail Address *(if applicable)* |
|---|---|
| | raneec@hailiangusa.com |

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

| | | |
|---|---|---|
| ( 626 ) 297-2992 | | ( 909 ) 869-8098 |

# SECTION III: Regulated Entity Information

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

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

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

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

Hailiang Copper Texas Inc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | 5000 INTERSTATE 10 FRONTAGE RD | | | | | | | |
| | | | | | | | | |
| | **City** | Sealy | **State** | TX | **ZIP** | 77474 | **ZIP + 4** | |
| **24. County** | Austin | | | | | | | |

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

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

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

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

| | | | |
|---|---|---|---|
| **29. Primary SIC Code** (4 digits) | **30. Secondary SIC Code** (4 digits) | **31. Primary NAICS Code** (5 or 6 digits) | **32. Secondary NAICS Code** (5 or 6 digits) |
| 3351 | 6512 | 331410 | |

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

Copper Tubing Manufacturing

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | **1142 S Diamond Bar Blvd, STE 370** | | | | | | | |
| | | | | | | | | |
| | **City** | **Diamond Bar** | **State** | **CA** | **ZIP** | **91765** | **ZIP + 4** | **2203** |
| **35. E-Mail Address:** | **raneec@hailiangusa.com** | | | | | | | |

| | | |
|---|---|---|
| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
| **( 626 ) 297-2992** | | **( 909 ) 869-8098** |

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

| | | | | |
|---|---|---|---|---|
| ☐ Dam Safety | ☐ Districts | ☐ Edwards Aquifer | ☐ Emissions Inventory Air | ☐ Industrial Hazardous Waste |
| | | | | |
| ☐ Municipal Solid Waste | ☐ New Source Review Air | ☐ OSSF | ☐ Petroleum Storage Tank | ☐ PWS |
| | | | | |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☒ Wastewater | ☐ Wastewater Agriculture | ☐ Water Rights | ☐ Other: |
| | WQ0002462000 | | | |

## SECTION IV: Preparer Information

| 40. Name: | Jonathan Martensen | 41. Title: | Senior Environmental Associate |
|---|---|---|---|

| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
|---|---|---|---|
| ( 713 ) 457-5232 | | (  )  - | jmartensen@camstex.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: | Hailiang Copper Texas Inc | Job Title: | President |
|---|---|---|---|
| Name *(In Print)*: | Hu Wang | Phone: | ( 626 ) 977- 3090 |
| Signature: | Wang Hu | Date: | 9/18 -2024 |

# ATTACHMENT C
## Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Hailiang Copper Texas, Inc. (CN6005607233) operates the Hailiang Facility (RN102411352), a a copper tubing manufacturing facility. The facility is located at 5000 I-10 West, in Sealy, Austin County, Texas 77474. This application is for a major amendment with renewal for a permit to discharge treated wastewater at a volume not to exceed 395,000 gallons per day via Outfall 001, 201, and 301 .

Discharges from the facility are expected to contain Total suspended solids (TSS), E. coli, oil and grease, Alkaline and acidic wastewater (3 – 11 S.U.), organic material (COD), hexavalent chromium, phosphorus, chromium, ammonia, copper, sulfide, lead, and zinc. Industrial wastewater will be treated by the following treatment process: Industrial wastewater is collected in a holding tank. The water passes through an oil-water separator and then enters an air flotation tank where coagulants are added, and floating sludge is removed. The wastewater then enters an electrocoagulation unit which generates ferrous ions. These ions are oxidized in an aeration tank then the wastewater enters a precipitation unit where the

metal ions and suspended solids are removed. The wastewater then enters the electrocatalytic oxidation unit, which attacks organic pollutants using hydroxyl radicals. The wastewater then goes through a secondary coagulation and sedimentation unit before entering the membrane bioreactor system (MBR). This system uses an anaerobic and aerobic treatment process to fully oxidize and decompose organic materials and ammonia nitrogen. The MBR generates activated sludge, most of which is recycled, and the remaining is sent to the sludge treatment process. The wastewater then undergoes ultraviolet disinfection before entering a storage tank and then a sand and carbon filtration system. After the sand and carbon filtration, the wastewater is stored in a raw water tank before entering the reverse osmosis (RO) system. The RO system uses osmotic pressure to force water through a membrane while keeping the solutes in a concentrated state on the other side. The permeated pure water is recycled back into the industrial process. The RO non-permeable concentrate is further treated via Fenton Fluidized Bed Technology to treat organic matter and then undergoes one last precipitation reaction before being discharged to Outfall 201. The treated wastewater flows to the detention pond and then to the retention pond before finally discharging via Outfall 001. Industrial sludge is collected in a sludge collection tank where it then enters a plate and frame filter press for drying before disposal. The water generated from the filter press enters the acid-washing wastewater tank, which feeds into the MBR. Domestic wastewater will be treated by the following treatment process: Wastewater is collected in a holding tank. The water from the tank passes through a bar screen and into an extended aeration basin. The partially treated water from the basin flows into the clarifier, where the solids are removed and placed in a sludge-thickening chamber. The cleaned water from the clarifier is processed through a chlorine contact chamber as a final treatment before discharge at Outfall 301, which then flows to Outfall 001. Larger suspended solids directly precipitate and flow through the sludge discharge pipe, after which they are discharged to the sludge tank. For smaller suspended solids, a mix flotation system along with a coagulative precipitation tank and bacteria filter is used to treat the wastewater. Afterward, it flows to the retention pond at the Facility and is discharged out of Outfall 001.

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

**AGUAS RESIDUALES** INDUSTRIALES **/AGUAS PLUVIALES**

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

Hailiang Copper Texas, Inc. (CN6005607233) opera las instalaciones de Hailiang (RN102411352), un Planta de fabricación de tubos de cobre. La instalación está ubicada en 5000 I-10 West, en Sealy, Condado de Austin, Texas 77474. Esta solicitud es para una enmienda importante con la renovación de un permiso para descargar aguas residuales tratadas a un volumen que no exceda los 395,000 galones por día a través de los desagües 001, 201 y 301. *<<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 Sólidos suspendidos totales (TSS), E. coli, aceites y grasas, aguas residuales alcalinas y ácidas (3 – 11 S.U.), material orgánico (COD), cromo hexavalente, fósforo, cromo, amoníaco, cobre, sulfuro, plomo y zinc. Aguas residuales industriales. estará tratado por el siguiente proceso de tratamiento: Las aguas residuales industriales se recogen en un tanque de retención. El agua pasa a través de un separador de agua y aceite y luego ingresa a un tanque de flotación de aire donde se agregan coagulantes y se eliminan los lodos flotantes. A continuación, las aguas residuales entran en una unidad de electrocoagulación que genera iones ferrosos. Estos iones se oxidan en un tanque de aireación, luego las aguas residuales ingresan a una unidad de precipitación donde se eliminan los iones metálicos y los sólidos en suspensión. A continuación, las aguas residuales entran en la unidad de oxidación electrocatalítica, que ataca los contaminantes orgánicos mediante radicales hidroxilo. A continuación, las aguas residuales pasan por una unidad secundaria de coagulación y sedimentación antes de entrar en el sistema de biorreactor de membrana (MBR). Este sistema utiliza un proceso de tratamiento anaeróbico y aeróbico para oxidar y descomponer completamente los materiales orgánicos y el nitrógeno amoniacal. El MBR genera lodos activados, la mayoría de los cuales se reciclan, y el resto se envía al proceso de tratamiento de lodos. Luego, las aguas residuales se someten a una desinfección ultravioleta antes de ingresar a un tanque de almacenamiento y luego a un sistema de filtración de arena y carbón. Después de la filtración de arena y carbón, las aguas residuales se almacenan en un tanque de agua cruda antes de ingresar al sistema de ósmosis inversa (RO). El sistema de ósmosis inversa utiliza la presión osmótica para forzar el agua a través de una membrana mientras mantiene los solutos en un estado concentrado en el otro lado. El agua pura permeada se recicla de nuevo en el proceso industrial. El concentrado no permeable de ósmosis inversa se trata aún más a través de la tecnología de lecho fluidizado de Fenton para tratar la materia orgánica y luego se somete a una última reacción de precipitación antes de ser descargado en el desagüe 201. Las aguas residuales tratadas fluyen hacia el estanque de retención y luego al estanque de retención antes de descargarse finalmente a través del emisario 001. Los lodos industriales se recogen en un tanque de recolección de lodos donde luego ingresan a un filtro prensa de placa y marco para su secado antes de su eliminación. El agua generada por el filtro prensa ingresa al tanque de aguas residuales de lavado ácido, que alimenta el MBR. Las aguas residuales domésticas se tratarán mediante el siguiente proceso de tratamiento: Las aguas residuales se recogen en un tanque de retención. El agua del tanque pasa a través de una pantalla de barra y entra en una cuenca

de aireación extendida. El agua parcialmente tratada de la cuenca fluye hacia el clarificador, donde los sólidos se eliminan y se colocan en una cámara de espesamiento de lodos. El agua limpia del clarificador se procesa a través de una cámara de contacto con cloro como tratamiento final antes de la descarga en el desagüe 301, que luego fluye al desagüe 001. Los sólidos suspendidos más grandes precipitan y fluyen directamente a través de la tubería de descarga de lodos, después de lo cual se descargan al tanque de lodos. Para los sólidos suspendidos más pequeños, se utiliza un sistema de flotación de mezcla junto con un tanque de precipitación coagulativo y un filtro de bacterias para tratar las aguas residuales. Posteriormente, fluye hacia el estanque de retención de la instalación y se descarga desde el desagüe 001..

# ATTACHMENT D
# Public Involvement Plan

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.

## Section 5. Community and Demographic Information

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

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

(City)

(County)

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

☐ City ☐ County ☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

## Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

## Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

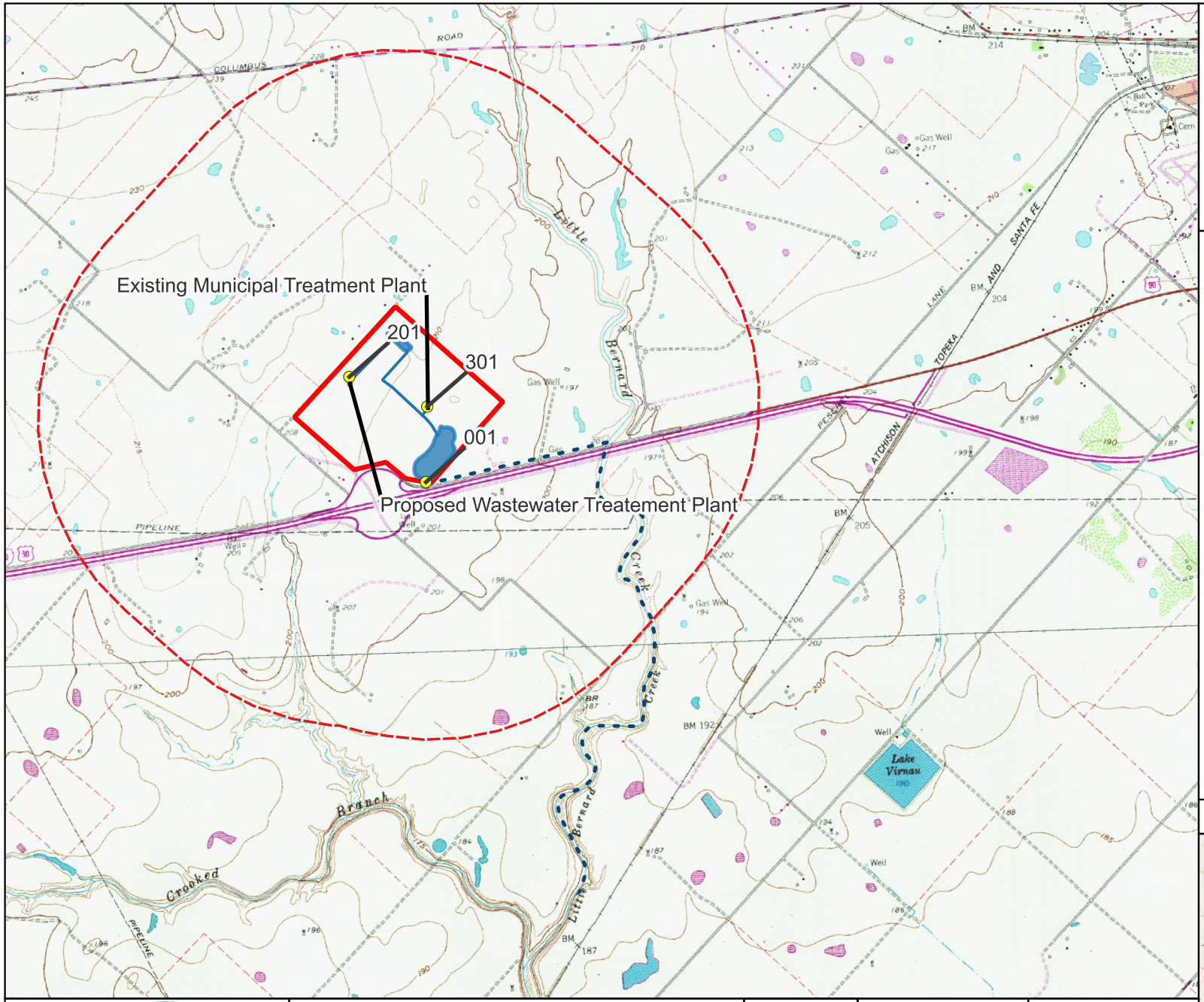
☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

# ATTACHMENT E
# USGS Topographic Map




N

0 2,000 4,000 ft

## Legend:

- Property Boundary
- 1 Mile Radius
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 3-Miles /Downstream

Project Location


eSPARC
A CAMS COMPANY

Attachment E
TPDES Permit Renewal
USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-22 |

# ATTACHMENT F
## Authorization to Discharge

**From:** Thomas Newhouse
**To:** ryan.simper@txdot.gov; michael.brzozowski@txdot.gov
**Cc:** woodrow.jasek@txdot.gov; Lucian Hill; Jonathan Martensen
**Subject:** Hailiang Copper Facility Authorization To Discharge
**Date:** Tuesday, August 20, 2024 2:31:00 PM
**Attachments:** Hailiang Copper Texas Wastewater Treatment Plant Technical Protocol edit.pdf
2019-07-11 Hailiang TPDES Permit.pdf
image001.emz
image003.png
image004.png

---

Good afternoon,

After speaking with Mr. Jasek on the phone, I was instructed to contact you regarding an authorization letter to discharge into a TxDOT drainage ditch. Below, you will find information regarding Hailiang Copper's industrial wastewater permit amendment.

Hailiang is located at 5000 I-10 W Sealy, Texas 77474, within CSJ 0271-02. The facility currently operates under a TPDES permit which authorizes discharge of treated municipal wastewater and stormwater from a retention pond through outfall 001 at the property's southwest corner. The discharge enters a drainage ditch that runs along I-10 before entering Little Bernard Creek. Hailiang plans to add a new pipefitting process that will generate wastewater and requires an amendment of its permit. Part of the amendment process involves obtaining a letter of authorization to discharge into a State Highway ROW Drainage Ditch.

Please find the existing permit and information about the new process, waste streams, and drainage route attached and below:

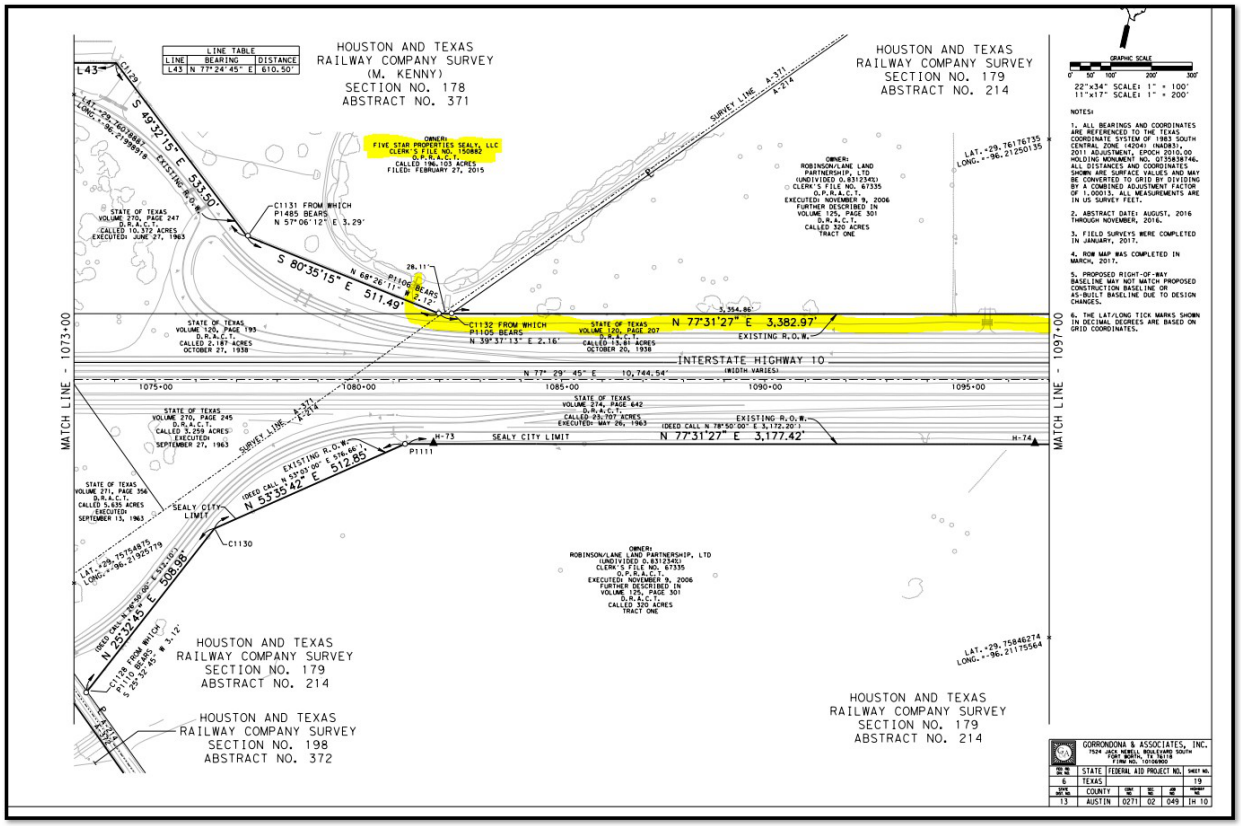
- Hailiang will add copper pipe fitting and coupling processes producing wastewater.
- The new wastewater will enter an industrial wastewater treatment plant. After treatment, about 1,749 gallons per day of wastewater will enter a detention pond for further settling. The water will then be pumped to the facility's retention pond and ultimately discharge through Outfall 001.

- **Items to be added to the TPDES Permit**
  - New internal outfall
  - New wastewater treatment facility
    - Components of treatment process:
      - See the attached treatment process diagram
  - Wastewater sources:
    - Coating and cleaning wastewater
      - Black-coating cleaning wastewater
      - Vibrate-through cleaning wastewater
      - Semi-finished products cleaning wastewater
    - Only ~25% or ~1,749 gallons will be discharged from the new processes
  - Wastewater effluent profile:
    - Alkaline and acidic wastewater (3 – 11 S.U.)
    - petroleum substances
    - organic material (COD)
    - suspended solids
    - hexavalent chromium
    - phosphorus
    - chromium
    - ammonia
    - copper
    - sulfide
    - lead
    - zinc

Discharge Standards after Treatment

| Item | pH (S.U.) | TSS (mg/L) | CODcr (mg/L) | NH3N (mg/L) | Total P (mg/L) | Petroleum Substances (mg/L) | Total Cu (mg/L) | Total Zn (mg/L) | Total Pb (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| Value | 6.5-8.5 | 60 | 60 | 15 | 1 | 1 | 2.0 | 1.0 | 1.0 |

CSJ 0271-02 with Drainage Ditch Highlighted



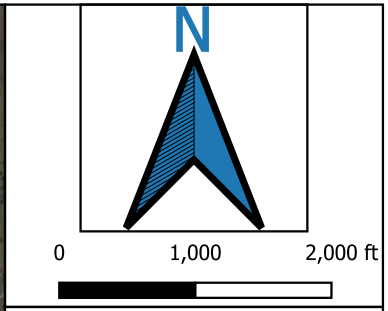

*Please note the map still lists Five Star as the owner, this is not up to date. Hailiang Copper purchased the land from Five Star.

Please let me know if you have any questions or need any additional information from me.

Thank you,

Thomas Newhouse
Environmental Associate I
Work: 713.358.9748
Cell: 281.685.3504
tnewhouse@camstex.com

# ATTACHMENT G
## Affected Landowner Map


## Legend:

- Property Boundary
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 1-Mile Downstream
- Affected Landowners

Project Location


eSPARC
A CAMS COMPANY

# Attachment E
# TPDES Permit Renewal
# USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-23 |

# ATTACHMENT H
## Cross Reference List

| Map ID | Name of Owner | Mailing Address | | | |
|---|---|---|---|---|---|
| 0 | N/A | N/A | N/A | N/A | N/A |
| 1 | PYKA PROPERTY LLC | 1224 CHUCK DR | FRIENDSWOOD | TX | 77546 |
| 2 | ALI MUJAHID & SHUI N WOO | 5104 EULE DR | KATY | TX | 77493 |
| 3 | GORDON LATONIA H & RODNEY J | 846 PYKA RD | SEALY | TX | 77474 |
| 4 | RUIZ LEOPOLDO | 959 HINTZ RD | SEALY | TX | 77474 |
| 5 | CORDOVA ANTONIO & ROSAS JOSE | 999 HINTZ RD | SEALY | TX | 77474 |
| 7 | LEVINE SIDNEY | PO BOX 592 | SEALY | TX | 77474 |
| 8 | LEVINE SIDNEY | PO BOX 592 | SEALY | TX | 77474 |
| 9 | MULTIPLE OWNERS | | | | |
| 10 | BARNES ROCHELLE LOUANN | 1327 HINTZ RD | SEALY | TX | 77474 |
| 11 | BARNES ROCHELLE LOUANN | 1327 HINTZ RD | SEALY | TX | 77474 |
| 12 | ROSAS RAUL S SR & ELIDUVINA | 1061 HINTZ RD | SEALY | TX | 77474 |

| | | | | | |
|---|---|---|---|---|---|
| 12 | TREJO BRENDA & JULIO | 1812 SETILERS COURT DR | SEALY | TX | 77474 |
| 13 | INOCENCIO MIRAMONTES | 18306 TUPPER BEND LN | CYPRESS | TX | 77433 |
| 14 | MACHADO RONOLDIN | 1453 HINTZ RD | SEALY | TX | 77474 |
| 15 | MAZOCH HENRY F | 1473 HINTZ RD | SEALY | TX | 77474 |
| 16 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |
| 17 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |
| 18 | MILES WILLIAM R SR ESTATE & MARY L | 1496 HINTZ RD | SEALY | TX | 77474 |
| 19 | KEPLER BENJAMIN L | 1779 SETILERS COURT | SEALY | TX | 77474 |
| 20 | STRICKER CRYSTAL K | 1811 SETILERS CT | SEALY | TX | 77474 |
| 21 | BERGER JEFFREY ALLEN | 1933 SETILERS CRT DR | SEALY | TX | 77474 |
| 22 | FIERRO-NIEVA JAIME M | 1963 SETILERS CR DR | SEALY | TX | 77474 |
| 23 | AVALOS JESUS ANGEL & ELIZABETH | 527 BARREN OAK LN | CROSBY | TX | 77532 |
| 24 | DEBERRY GAYLE LOCKE | 2035 SETILERS COURT DR | SEALY | TX | 77474 |

| | | | | | |
|---|---|---|---|---|---|
| 25 | GRAY TRACI D & TROY S | 2065 SETILERS COURT DR | SEALY | TX | 77474 |
| 26 | SCOTT KEVIN L | 2097 SETILERS COURT DR | SEALY | TX | 77474 |
| 27 | SCOTT KERRY | 2129 SETILERS CT DR | SEALY | TX | 77474 |
| 28 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 29 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 30 | STATE OF TEXAS | 125 EAST 11TH ST | AUSTIN | TX | 78701 |
| 31 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 32 | GEOSOUTHERN INTERMEDIATE HOLDINGS LLC | 1425 LAKE FRONT CIR STE 200 | THE WOODLANDS | TX | 77380 |
| 33 | CITY OF SEALY | 415 MAIN ST | SEALY | TX | 77474 |
| 34 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |

# ATTACHMENT I
## Original Photographs and Map

- 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:

Fig. 1: Discharge from Weir to Reservoir, facing North.


Fig. 2: Drainage ditch to Little Bernard Creek, facing East.

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

Fig. 3: New WWTP Location, facing Southwest


N

0 400 800 ft

## Legend:

- Property Boundary
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- Photo Direction

Project Location


eSPARC
A CAMS COMPANY

Attachment I
TPDES Permit Renewal
Site Photograph Locations

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-23 |

# ATTACHMENT J
# SPIF

# 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: Hailiang Copper Texas Inc

   Permit No. WQ00 02462000 EPA ID No. TX 0085936

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

   5000 Interstate 10 W, Sealy, TX 77474

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Jonathan Martensen

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

Title: Senior Environmental Associate

Mailing Address: 910 Louisiana St, STE 2400

City, State, Zip Code: Houston, TX, 77002

Phone No.: 713-457-5232 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jmartensen@camstex.com

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

   Click here to enter text.

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.

   Effluent is discharged to a drainage ditch abutting IH-10; then to Little Bernard Creek; then to East Bernard Creek; then to the San Bernard River Above Tidal Segment to No. 1302 of the Brazos Colorado Coastal Basin.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). **SPIF Attachment A – USGS Map**

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

   Attachment: 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):

Small vegetated area, < 1 acre, on the northeast corner of the copper tubing building will be cleared and leveled for the new WWTP.

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

Approximately 200-acre site with multiple warehouses and manufacturing buildings. The remainder of the property is employee parking and native grasslands.

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

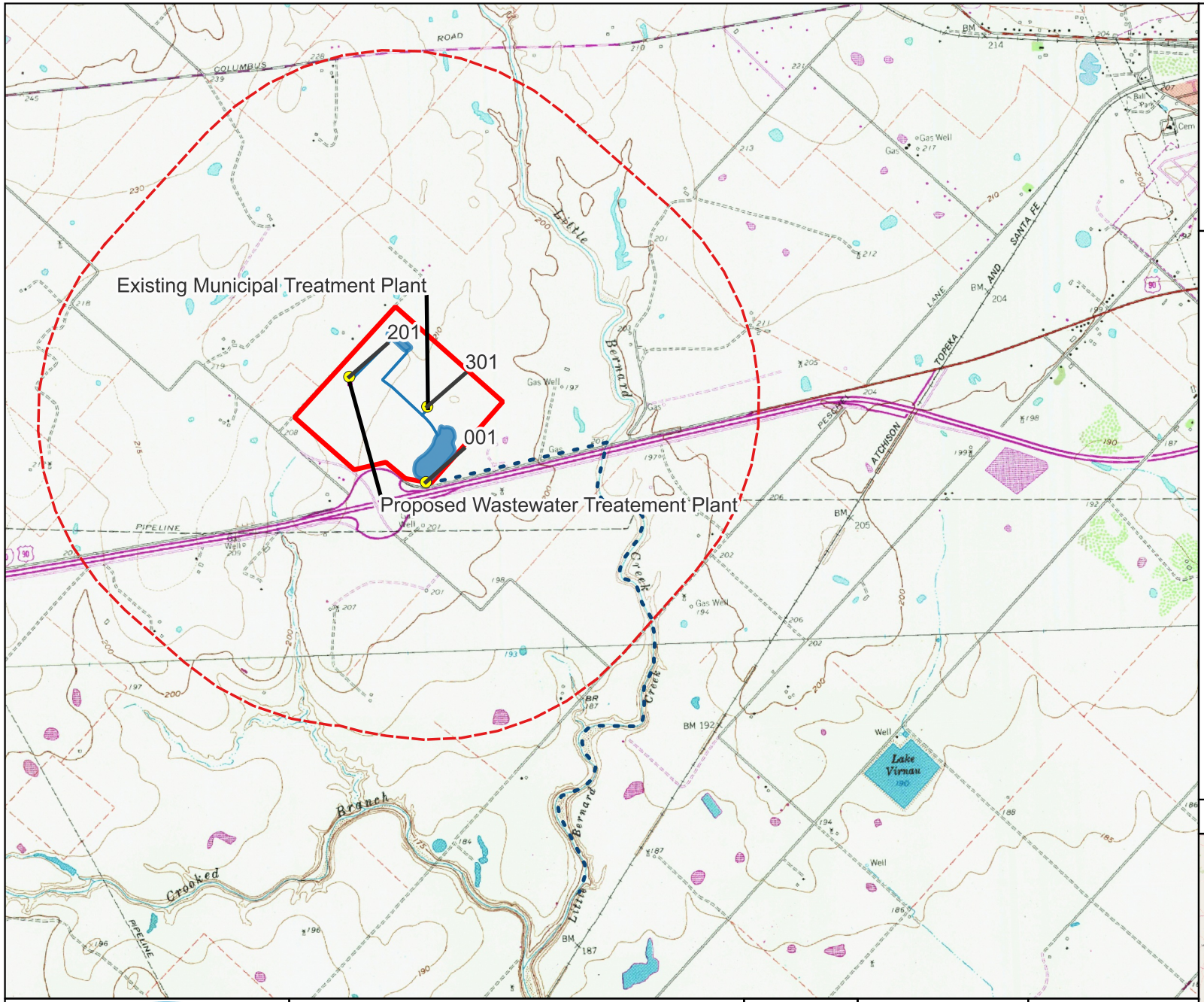
3. List construction dates of all buildings and structures on the property:

1980- Original Building; 2001- Fabrication Building built; 2006- Additional building constructed, 2020- Construction of Copper Tubing Facility. 2025 – New WWTP will be constructed.

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

The original site was in agricultural use until 1980 when the first industrial building was constructed. The original manufacturing was oil field equipment manufacturing. In 1990, the site was converted into a military truck assembling facility. Currently, the site serves as an industrial complex.

# SPIF ATTACHMENT A
# USGS Topographic Map




N

0 2,000 4,000 ft

## Legend:

- Property Boundary
- 1 Mile Radius
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 3-Miles /Downstream

Project Location


eSPARC
A CAMS COMPANY

SPIF Attachment A
TPDES Permit Renewal
USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-22 |

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

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

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

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

The facility, owned by Hailiang Copper Texas, Inc or "Hailiang", is an industrial park engaged in the management of the industrial property that is divided into lots for lease to various industrial lessees. Lessees are responsible for their own environmental permitting and compliance. Hailiang operates a copper tubing facility within the industrial park. The facility utilizes scrap copper, copper cathode, and recycled copper as raw materials and employ casting, milling, rolling, drawing, and annealing processes to manufacture copper tubing products including inner grooved tubes, level wound coils ("LWC"), and pancake coils. Hailiang is planning to add a new process to their facility involving the manufacturing of copper pipe fittings. This process will involve use of Hailiang's own or purchased copper tubing. The tubes will be cut pushed and compressed to form the pipe fittings. The fittings will be cleaned at two different stages along the process (three for copper rings).

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

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

Process wastewater will be generated with the addition of the copper pipe fitting production process. The process will form pipe fittings using cutting, pushing, and compressing of copper piping. Intermediate products are washed after cutting and before forming (semi-finished product cleaning wastewater). The forming process will use saponification to remove organic chemicals from the copper fittings. After forming and before packaging the parts are washed again (vibrate-through product cleaning wastewater). The vibrate-through cleaning process will use stainless steel balls. Copper rings specifically will have a third wash associated with an oxidized coating applied to the rings (black-coating cleaning wastewater), this wash utilizes non-metallic abrasive materials, likely pebbles. These wastewater streams will enter the new wastewater treatment plant. At maximum production, after treatment, about 2,011.6 gallons per day of the wastewater will be recirculated back into the production process for recycling and the remaining amount will be discharged. After treatment, about 1,749.2 gallons per day of wastewater will enter a detention pond for further settling, then will be pumped to the facility's retention pond and ultimately discharge through Outfall 001. Sanitary wastewater is generated on-site by current facility employees (and their guests) as well as lessees (employees, customers and guests). This water is collected in lift stations and transferred to the on-site treatment plant. The wastewater is subjected to physical, chemical, and biological treatment, after which, it is discharged from the facility's retention pond to Outfall 001.

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

**Materials List**

| **Raw Materials** | **Intermediate Products** | **Final Products** |
|---|---|---|
| Scrap Copper (CASRN: 7440-50-8) | Melted Copper (CASRN: 7440-50-8) | Annealed Copper Tubes (CASRN: 7440-50-8) |
| Copper Cathode (CASRN: 7440-50-8) | Copper Tube Billets (CASRN: 7440-50-8) | Inner Grooved Tubes (CASRN: 7440-50-8) |
| Recycled Copper (CASRN: 7440-50-8) | | Copper Pipe Fittings (CASRN: 7440-50-8) |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |

**Attachment:** Click to enter text.

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: A – Facility Map**

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA FIRM Map Number 48015C0325E, Revised September 3, 2010

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: Click to enter text.

**Attachment:** Click to enter text.

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: Click to enter text.

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

## Item 2. Treatment System (Instructions, Page 40)

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

Sanitary wastewater treatment process: Wastewater is collected in a holding tank. The water from the tank passes through a bar screen and into an extended aeration basin. The partially treated water from the basin flows into the clarifier, where the solids are removed and placed in a sludge thickening chamber. The cleaned water from the clarifier is processed through a chlorine contact chamber as final treatment prior to discharge at Outfall 301, which then flows to Outfall 001. Larger suspended solids directly precipitate, and flow through the sludge discharge pipe, after which they discharged to the sludge tank. For smaller suspended solids, a mix flotation system along with a coagulative precipitation tank and bacteria filter is used to treat the wastewater, after which, it flows to the retention pond at the Facility and is discharged out of Outfall 001.

Process wastewater treatment process: Wastewater is collected in a holding tank. The water passes through an oil-water separator and then enters an air flotation tank where coagulants are added, and floating sludge is removed. The wastewater then enters an electrocoagulation unit which generates ferrous ions. These ions are oxidized in an aeration tank then the wastewater enters a precipitation unit where the metal ions and suspended solids are removed. The wastewater then enters the electrocatalytic oxidation unit, which attacks organic pollutants using hydroxyl radicals. The wastewater then goes through a secondary coagulation and sedimentation unit before entering the membrane bioreactor system (MBR). This system uses an anaerobic and aerobic treatment process to fully oxidize and decompose organic materials and ammonia nitrogen. The MBR generates activated sludge, most of which is recycled, and the remaining is sent to the sludge treatment process. The wastewater then undergoes ultraviolet disinfection before entering a storage tank then a sand and carbon filtration system. After the sand and carbon filtration, the wastewater is stored in a raw water tank before entering the reverse osmosis (RO) system. The RO system uses osmotic pressure to force water through a membrane while keeping the solutes in a concentrated state on the other side. The permeated pure water is recycled back into the industrial process. The RO non-permeable concentrate is further treated via Fenton Fluidized Bed Technology to treat organic matter and then undergoes one last precipitation reaction before being discharged to Outfall 201. The treated wastewater flows to the detention pond and then to the retention pond before finally discharging via Outfall 001. Industrial sludge is collected in a sludge collection tank where it then enters a plate and frame filter press for drying before disposal. The water generated from the filter press enters the acid-washing wastewater tank, which feeds into the MBR.

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: B – Flow Balance Diagram**

## Item 3. Impoundments (Instructions, Page 40)

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

**Impoundment Information**

| **Parameter** | **Pond #** | **Pond #** | **Pond #** | **Pond #** |
|---|---|---|---|---|
| Use Designation: (T) (D) (C) or (E) | C | C | | |
| Associated Outfall Number | 001 | 201 | | |
| Liner Type (C) (I) (S) or (A) | C | C | | |
| Alt. Liner Attachment Reference | | | | |
| Leak Detection System, Y/N | N | TBD | | |
| Groundwater Monitoring Wells, Y/N | N | TBD | | |
| Groundwater Monitoring Data Attachment | N | TBD | | |
| Pond Bottom Located Above The Seasonal High-Water Table, Y/N | | | | |
| Length (ft) | 1110 | 525 | | |
| Width (ft) | 480 | 115 | | |
| Max Depth From Water Surface (ft), Not Including Freeboard | 8.6 | 6.9 | | |
| Freeboard (ft) | 2-4 | 1 | | |
| Surface Area (acres) | 12.2 | 2.23 | | |
| Storage Capacity (gallons) | 34.2 Million | 3.1 Million | | |
| *40 CFR Part 257, Subpart D,* Y/N | N | 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**.

1. Liner data

   ☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

   ☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

   ☐ Yes ☐ No ☐ Not yet designed

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

**Attachment:** Click to enter text.

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

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

**Attachment:** Click to enter text.

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

**Attachment:** Click to enter text.

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

**Attachment:** Click to enter text.

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

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

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

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

**Outfall Longitude and Latitude**

| Outfall No. | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) |
|---|---|---|
| 001 | 29.759764 | -96.217159 |
| 301 | 29.763934 | -96.216954 |
| 201 | 29.765476 | -96.222263 |

**Outfall Location Description**

| Outfall No. | Location Description |
|---|---|
| 001 | Discharge from Pond 1 into IH-10 drainage ditch |
| 301 | Manhole on the west side of sanitary treatment plant |
| 201 | Discharge from new industrial WWTP on northeast corner of main building |

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

| Outfall No. | Description of sampling point |
|---|---|
| 001 | At outfall 001, where effluent is discharged from Pond 1, prior to leaving company property |
| 301 | At outfall 301, where effluent is discharged from the domestic wastewater treatment unit, prior to mixing with other waters in Pond 1. |
| 201 | At outfall 201, where effluent is discharge from the industrial wastewater treatment unit, prior to mixing with other waters in Pond 2. |

**Outfall Flow Information – Permitted and Proposed**

| Outfall No. | Permitted Daily Avg Flow (MGD) | Permitted Daily Max Flow (MGD) | Proposed Daily Avg Flow (MGD) | Proposed Daily Max Flow (MGD) | Anticipated Discharge Date (mm/dd/yy) |
|---|---|---|---|---|---|
| 001 | 0.395 | 0.395 | 0.395 | 0.395 | Existing |
| 301 | 0.0618 | 0.0618 | 0.0618 | 0.0618 | Existing |
| 201 | TBD | TBD | TBD | TBD | TBD |

**Outfall Discharge – Method and Measurement**

| Outfall No. | Pumped Discharge? Y/N | Gravity Discharge? Y/N | Type of Flow Measurement Device Used |
|---|---|---|---|
| 001 | Y | N | Flow Meter |
| 301 | Y | N | Flow Meter |
| 201 | TBD | TBD | TBD |

**Outfall Discharge – Flow Characteristics**

| Outfall No. | Intermittent Discharge? Y/N | Continuous Discharge? Y/N | Seasonal Discharge? Y/N | Discharge Duration (hrs/day) | Discharge Duration (days/mo) | Discharge Duration (mo/yr) |
|---|---|---|---|---|---|---|
| 001 | Y | N | N | 24 | 31 | 12 |
| 301 | N | N | Y | 24 | 31 | 12 |

| Outfall No. | Intermittent Discharge? Y/N | Continuous Discharge? Y/N | Seasonal Discharge? Y/N | Discharge Duration (hrs/day) | Discharge Duration (days/mo) | Discharge Duration (mo/yr) |
|---|---|---|---|---|---|---|
| 201 | TBD | TBD | TBD | TBD | TBD | TBD |

**Outfall Wastestream Contributions**

**Outfall No. 001**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Internal Outfall 201 (Treated Process WW) | 0.00175 | |
| Internal Outfall 301 (Treated Sanitary WW) | 0.00372 | 2.42 |
| Intermittent rainfall | 0.04446 | 28.9 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

**Outfall No. 301**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Sanitary Wastewater | 0.00372 | 100 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

**Outfall No. 201**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Industrial process wastewater | 0.00175 | 100 |
| | | |
| | | |
| | | |
| | | |

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Attachment:** Click to enter text.

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

**Attachment:** Click to enter text.

c. Cooling Towers and Boilers

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

**Cooling Towers and Boilers**

| Type of Unit | Number of Units | Daily Avg Blowdown (gallons/day) | Daily Max Blowdown (gallons/day) |
|---|---|---|---|
| Cooling Towers | | | |
| Boilers | | | |

## Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☒ Other (e.g., portable toilets), specify and Complete Item 7.b: Domestic sewage is collected from generation points by lift stations and treated in an on-site sanitary wastewater treatment plant. Sewage sludge is hauled offsite with a motorized vehicle by the contractor listed below.

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. |
|---|---|
| K3BMI | 04518 |
| | |

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

## Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

# Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

**Radioactive Materials Mined, Used, Stored, or Processed**

| Radioactive Material Name | Concentration (pCi/L) |
|---|---|
| | |
| | |
| | |
| | |

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

☐ Yes ☒ No

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

**Radioactive Materials Present in the Discharge**

| Radioactive Material Name | Concentration (pCi/L) |
|---|---|
| | |
| | |
| | |
| | |

# Item 12. Cooling Water (Instructions, Page 46)

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

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

Cooling water is obtained from both an on-site well and the City of Sealy

c. Cooling Water Supplier

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

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

| | | | | |
|---|---|---|---|---|
| **CWIS ID** | City Water | Groundwater | | |
| **Owner** | City of Sealy | Hailiang Copper Texas | | |
| **Operator** | City of Sealy | Hailiang Copper Texas | | |

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

   ☒ Yes ☐ No

   If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. City Water – TX0080002, Onsite Groundwater - TX0080030

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

d. 316(b) General Criteria

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

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

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

☐ Track I – AIF greater than 10 MGD

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

☐ Track II

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility

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

☐ Track I – Not a fixed facility

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

☐ Track II – Fixed facility

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

**Attachment:** Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

☒ Yes ☐ No

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

1. Request to add new effluent characteristics to the discharge profile. Effluent characteristics include: Alkaline and acidic wastewater (3 - 11 S.U.), petroleum substances, organic material (COD), suspended solids, hexavalent chromium, phosphorus, chromium, ammonia, copper sulfide, lead, and zinc. This change is the result of the introduction of the new pipe fitting process and associated waste water discharge from the cleaning of products.
2. Increase flow of discharge by approximately .0017 MGD. This change is a result of the introduction of the new pipe fitting process and associated water use for cleaning of products.
3. Request to add new internal outfall. This change is a result of the introduction of the new pipe fitting process and associated water use for cleaning of products.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

## Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

CERTIFICATION:

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

Printed Name: Hu Wang

Title: President

Signature: Wang Hu

Date: 9/18-2024

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

## Item 1. Categorical Industries (Instructions, Page 53)

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

☒ Yes ☐ No

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

**40 CFR Effluent Guideline**

| Industry | 40 CFR Part |
|---|---|
| Metal Products and Machinery | 438 |
| | |
| | |
| | |
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| | |

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

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

### a. Production Data

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

**Production Data**

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

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

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

**Percentage of Total Production**

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

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

Provide the applicable subcategory and a brief justification.

N/A

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

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

Process wastewater will be generated with the addition of the copper pipe fitting production process. Intermediate products are washed after cutting and before forming (semi-finished product cleaning wastewater). The forming process will use saponification to remove organic chemicals from the copper fittings. After forming and before packaging, the parts are washed again (vibrate-through product cleaning wastewater). The vibrate-through cleaning process will use stainless steel balls. Copper rings specifically will have a third wash associated with an oxidized coating applied to the rings (black-coating cleaning wastewater), this wash utilizes non-metallic abrasive materials, likely pebbles. These wastewater streams will enter the new wastewater treatment plant. At maximum production, after treatment, about 2,011.6 gallons per day or 53% of the wastewater will be recirculated back into the production process for recycling and the remaining amount will be discharged. After treatment, about

1,749.2 gallons per day of wastewater will enter a detention pond for further settling, then will be pumped to the facility's retention pond and ultimately discharge through Outfall 001. Sanitary wastewater is generated on-site by current facility employees (and their guests) as well as lessees (employees, customers and guests). This water is collected in lift stations and transferred to the on-site treatment plant. The wastewater is subjected to physical, chemical, and biological treatment, after which, it is discharged from the facility's retention pond to Outfall 001. Both treated process and sanitary wastewater will be authorized for discharge under this permit.

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

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

**Wastewater Generating Processes Subject to Effluent Guidelines**

| Process | EPA Guideline Part | EPA Guideline Subpart | Date Process/ Construction Commenced |
|---|---|---|---|
| Semi-finished products cleaning | 40 CFR 438 | 1 | TBD |
| Vibrate through cleaning | 40 CFR 438 | 1 | TBD |
| | | | |
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# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

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

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

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 03/06/2024 – 03/27/2024

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

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

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

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment: D – Sampling Guidance**

**TABLE 1 and TABLE 2 (Instructions, Page 58)**

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

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

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | 7.4 | 3.18 | 6.23 | 4.15 |
| CBOD (5-day) | 3.49 | 3.71 | <3.00 | <2.03 |
| Chemical oxygen demand | 23 | <20 | <20 | <20 |
| Total organic carbon | 3.97 | 3.72 | 3.34 | 3.42 |
| Dissolved oxygen | 9.19 | 8.24 | 10.5 | 7.65 |
| Ammonia nitrogen | 0.0575 | 0.0460 | <0.0500 | 0.0620 |
| Total suspended solids | 20.5 | 22.5 | 10.4 | 4.00 |
| Nitrate nitrogen | 0.148 | <0.100 | <.100 | 0.178 |
| Total organic nitrogen | 1.62 | <1.00 | 1.30 | 1.28 |
| Total phosphorus | 0.123 | 0.236 | 0.0875 | 0.0797 |
| Oil and grease | <5.00 | <5.00 | <5.00 | <5.00 |
| Total residual chlorine | <0.25 | <0.25 | <0.25 | <0.25 |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 146 | 120 | 100 | 116 |
| Sulfate | 6.43 | 6.56 | 6.24 | 5.90 |
| Chloride | 5.44 | 6.27 | 5.34 | 5.65 |
| Fluoride | <0.250 | 0.250 | <0.250 | <0.250 |
| Total alkalinity (mg/L as CaCO3) | 48.4 | 48.9 | 47.5 | 50.0 |
| Temperature (˚F) | 70.9 | 72.68 | 69.62 | 70.9 |
| pH (standard units) | 9.37 | 7.97 | 7.64 | 7.41 |

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

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 206 | 112 | 193 | 175 | 2.5 |
| Antimony, total | <1.00 | <1.00 | <1.00 | <1.00 | 5 |
| Arsenic, total | 0.706 | 0.601 | 0.723 | 0.683 | 0.5 |
| Barium, total | 63.9 | 54.6 | 59.6 | 60.8 | 3 |
| Beryllium, total | <0.200 | <0.200 | <0.200 | <0.200 | 0.5 |
| Cadmium, total | <1.00 | <1.00 | <1.00 | <1.00 | 1 |
| Chromium, total | <3.00 | <3.00 | <3.00 | <3.00 | 3 |
| Chromium, hexavalent | <3.00 | 17.7 | 22.2 | <3.00 | 3 |
| Chromium, trivalent | <6.00 | <6.00 | <6.00 | <6.00 | N/A |
| Copper, total | 8.22 | 7.43 | 6.47 | 5.92 | 2 |
| Cyanide, available | <10.0 | <10.0 | <10.0 | <10.0 | 2/10 |
| Lead, total | .806 | <.500 | 0.617 | .508 | 0.5 |
| Mercury, total | .00507 | <0.005 | <0.005 | <0.005 | 0.005/0.0005 |
| Nickel, total | 2.46 | <2.00 | 2.37 | 2.27 | 2 |
| Selenium, total | <5.00 | <5.00 | <5.00 | <5.00 | 5 |
| Silver, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Thallium, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Zinc, total | 18.3 | 14.9 | 17.4 | 17.5 | 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).

Sampling will be complete upon completion of new WWTP

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

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

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | | | | | 10 |
| 2,4-Dimethylphenol | | | | | 10 |
| Di-n-Butyl phthalate | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Fluoride | | | | | 500 |
| Hexachlorobenzene | | | | | 5 |
| Hexachlorobutadiene | | | | | 10 |
| Hexachlorocyclopentadiene | | | | | 10 |
| Hexachloroethane | | | | | 20 |
| Methyl ethyl ketone | | | | | 50 |
| Nitrobenzene | | | | | 10 |
| N-Nitrosodiethylamine | | | | | 20 |
| N-Nitroso-di-n-butylamine | | | | | 20 |
| Nonylphenol | | | | | 333 |
| Pentachlorobenzene | | | | | 20 |
| Pentachlorophenol | | | | | 5 |
| Phenanthrene | | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | | | | | 0.2 |
| Pyridine | | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethene | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| [Trichloroethylene] | | | | | |
| 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)**

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

**c. E. coli (discharge to freshwater)**

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

☒ Yes ☐ No

Domestic wastewater is/will be discharged.

☒ Yes ☐ No

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

**Table 4 for Outfall No.: 001** **Samples are (check one): ☒ Composite ☐ Grab**

| Pollutant | Sample 1 | Sample 2 | Sample 3 | Sample 4 | MAL |
|---|---|---|---|---|---|
| Tributyltin (µg/L) | N/A | N/A | N/A | N/A | 0.010 |
| Enterococci (cfu or MPN/100 mL) | N/A | N/A | N/A | N/A | N/A |
| *E. coli* (cfu or MPN/100 mL) | 5.20 | <1.00 | 5.20 | 15.8 | N/A |

**TABLE 5 (Instructions, Page 59)**

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

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

☒ N/A

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

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

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

**TABLE 6 (Instructions, Page 59)**

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

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

| Pollutants | Believed Present | Believed Absent | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) | MAL (µg/L)* |
|---|---|---|---|---|---|---|---|
| Bromide | ☐ | ☒ | <0.500 | <0.500 | <0.500 | <0.500 | 400 |
| Color (PCU) | ☐ | ☒ | TBD | TBD | TBD | TBD | — |
| Nitrate-Nitrite (as N) | ☒ | ☐ | <0.150 | <0.150 | <0.150 | 0.178 | — |
| Sulfide (as S) | ☒ | ☐ | 0.0566 | <0.0100 | <0.0100 | <0.0100 | — |
| Sulfite (as SO3) | ☒ | ☐ | <5.00 | <5.00 | <5.00 | <5.00 | — |
| Surfactants | ☒ | ☐ | <0.200 | <0.200 | <0.200 | <0.200 | — |
| Boron, total | ☒ | ☐ | 0.0363 | 0.0375 | 0.0367 | 0.0346 | 20 |
| Cobalt, total | ☐ | ☒ | <0.0003 | <0.0003 | <0.0003 | <0.0003 | 0.3 |
| Iron, total | ☒ | ☐ | 1.36 | 1.48 | 0.840 | 0.671 | 7 |
| Magnesium, total | ☒ | ☐ | 1.65 | 1.51 | 1.51 | 1.77 | 20 |
| Manganese, total | ☒ | ☐ | 0.0129 | 0.0130 | 0.0185 | 0.0130 | 0.5 |
| Molybdenum, total | ☐ | ☒ | <0.001 | <0.001 | <0.001 | <0.001 | 1 |
| Tin, total | ☒ | ☐ | 0.0141 | 0.00661 | 0.00642 | <0.005 | 5 |
| Titanium, total | ☐ | ☒ | <0.005 | <0.005 | <0.005 | <0.005 | 30 |

**TABLE 7 (Instructions, Page 60)**

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

☐ N/A

**Table 7 for Applicable Industrial Categories**

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

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| 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 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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.:** Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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.:** Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| Acenaphthene | | | | | 10 |
| Acenaphthylene | | | | | 10 |
| Anthracene | | | | | 10 |
| Benzidine | | | | | 50 |
| Benzo(a)anthracene | | | | | 5 |
| Benzo(a)pyrene | | | | | 5 |
| 3,4-Benzofluoranthene [Benzo(b)fluoranthene] | | | | | 10 |
| Benzo(ghi)perylene | | | | | 20 |
| Benzo(k)fluoranthene | | | | | 5 |
| Bis(2-chloroethoxy)methane | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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 |
| 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 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| N-Nitrosodi-n-propylamine | | | | | 20 |
| N-Nitrosodiphenylamine | | | | | 20 |
| Phenanthrene | | | | | 10 |
| Pyrene | | | | | 10 |
| 1,2,4-Trichlorobenzene | | | | | 10 |

* Indicate units if different from µg/L.

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

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

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| PCB 1260 | | | | | 0.2 |
| PCB 1016 | | | | | 0.2 |
| Toxaphene | | | | | 0.3 |

* Indicate units if different from µg/L.

**Attachment:** Click to enter text.

**TABLE 12 (DIOXINS/FURAN COMPOUNDS)**

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

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

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

☐ hexachlorophene (HCP) CASRN 70-30-4

☒ None of the above

Description: Click to enter text.

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

☐ Yes ☒ No

Description: Click to enter text.

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

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

| Compound | Toxicity Equivalent Factors | Wastewater Concentration (ppq) | Wastewater Toxicity Equivalents (ppq) | Sludge Concentration (ppt) | Sludge Toxicity Equivalents (ppt) | MAL (ppq) |
|---|---|---|---|---|---|---|
| 2,3,7,8-TCDD | 1 | | | | | 10 |
| 1,2,3,7,8-PeCDD | 1.0 | | | | | 50 |
| 2,3,7,8-HxCDDs | 0.1 | | | | | 50 |
| 1,2,3,4,6,7,8-HpCDD | 0.01 | | | | | 50 |

| Compound | Toxicity Equivalent Factors | Wastewater Concentration (ppq) | Wastewater Toxicity Equivalents (ppq) | Sludge Concentration (ppt) | Sludge Toxicity Equivalents (ppt) | MAL (ppq) |
|---|---|---|---|---|---|---|
| 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, Pages 60-61)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

## Item 3. Classified Segment (Instructions, Page 80)

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

☐ Yes ☒ No

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

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

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

a. Name of the immediate receiving waters: N/A

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:

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: Historical observations

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Little Bernard Creek

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: **Attachment E – Water Body Observations**

Date and time of observation: **August 2013**

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

☐ Yes ☒ No

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

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

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

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☒ other, specify: **Attachment E – Water Body Observations**

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: **Attachment E – Water Body Observations**

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

# ATTACHMENT A
# Facility Map

New WWTP
Outfall 201

Sludge & Copper Dust & Stack Dust

N 45° 00' 00" E

N 45° 00' 50" E

N 46° 01' 32" W

N 49° 30' 22" W

S 46° 01' 39" E

S 46° 01' 39" E

S 27° 08' 32" W

S 27° 23' 21" W

N 78° 17' 49" W

S 44° 27' 42" W

S 44° 21' 47" W

S 44° 23' 49" W

TEST TRACK

BRAKE TEST AREA

DETENTION RESERVOIR

Pump from Detention Reservoir to drainage ditch

Copper Tubing and Pipe Fitting Building

Plant Services Area

Building #8

MAINTENANCE 9# 8,800 SQ FT

Shipping

Building #12

Building #6

Building #7

Building #10

PYKA ROAD ENTRANCE

GUARD

LOCKER ROOM 24 SAFETY

Admin Building #3

Building #11

Parking Lot "A"

HR Building #1

Parking Lot "B"

Parking Lot "D"

Annex Building #4

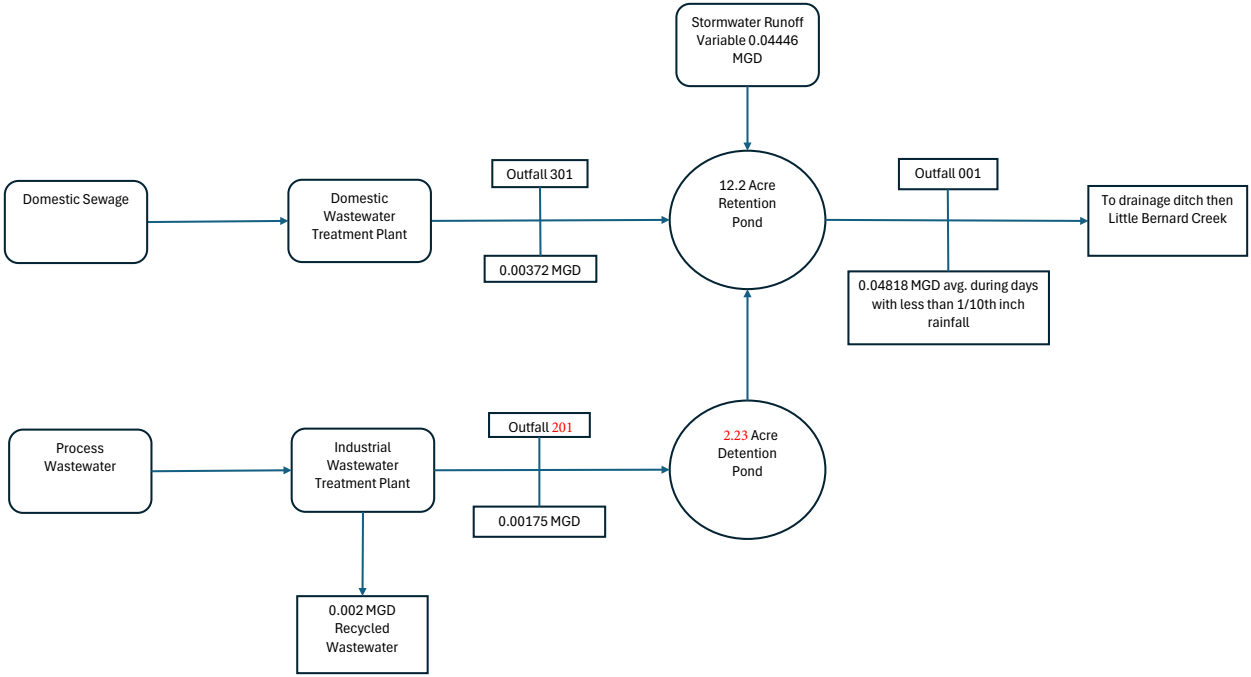
CPC Building #5

Domestic WWTP
Outfall 301

RETENTION RESERVOIR

Outfall 001

# ATTACHMENT B
# Flow Balance Diagram


Stormwater Runoff
Variable 0.04446
MGD
Domestic Sewage
Domestic
Wastewater
Treatment Plant
Outfall 301
0.00372 MGD
12.2 Acre
Retention
Pond
Outfall 001
0.04818 MGD avg. during days
with less than 1/10th inch
rainfall
To drainage ditch then
Little Bernard Creek
Process
Wastewater
Industrial
Wastewater
Treatment Plant
Outfall 201
0.00175 MGD
2.23 Acre
Detention
Pond
0.002 MGD
Recycled
Wastewater

# ATTACHMENT C
## Contract Laboratory Information

| Lab | Analytes | Phone Number |
|---|---|---|
| NWDLS | All pollutants in table 1, 2, 4, & 6 (except surfactants and sulfite) | 936-321-6060 |
| A & B Labs | Sulfite | 713-453-6060 |
| SPL | MBAS (Surfactant/Foaming Agent) | 903-984-0551 |

# ATTACHMENT D
# Sampling Guidance

**From:** Alexander Owens
**To:** Thomas Newhouse; WQ-ARPTeam
**Cc:** Matthew Udenenwu; dennis.zurek; Jonathan Martensen; Lucian Hill
**Subject:** RE: WQ0002462000 Major Amendment - Application Sampling Requirements
**Date:** Thursday, August 1, 2024 9:42:02 AM



Good morning Thomas,

If the makeup of the wastewater will change with the inclusion of process wastewater from the new treatment unit then it would be best to take additional samples that are representative of the discharge. I would say that the approach you mentioned is in line with this practice and should be sufficient. Hope this helps!

Best Wishes,
Alex Owens

---

**From:** Thomas Newhouse <tnewhouse@camstex.com>
**Sent:** Wednesday, July 31, 2024 12:08 PM
**To:** Alexander Owens <Alexander.Owens@tceq.texas.gov>; WQ-ARPTeam <WQ-ARPTeam@tceq.texas.gov>
**Cc:** Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>; dennis.zurek <Dennis.Zurek@Hailiangusa.com>; Jonathan Martensen <jmartensen@camstex.com>; Lucian Hill <lhill@camstex.com>
**Subject:** WQ0002462000 Major Amendment - Application Sampling Requirements

Hello Alexander,

My name is Thomas Newhouse, I am working on Hailiang's Major Amendment with Renewal (Permit No. WQ0002462000). We had a pre-submittal meeting on Wednesday, June 19th where we discussed the changes being made to the facility and strategy for submittal since there is currently a Renewal without changes application out with TCEQ. After discussing the different scenarios, we determined the best course of action is to keep the Renewal without changes application in place, then once our Major Amendment with Renewal application is complete, we will submit that and withdraw the initial Renewal without changes.

I would like to get confirmation on sampling requirements for the new submittal. On our call, we discussed including the sampling performed for the initial Renewal without changes in the Major Amendment with Renewal, then potentially performing follow up testing once the new wastewater treatment system is installed.

Will this approach be sufficient for the Major Amendment with Renewal application?

Thank you,

Thomas Newhouse
Environmental Associate I
Work: 713.358.9748
Cell: 281.685.3504
tnewhouse@camstex.com

# ATTACHMENT E
## Water Body Observations

**Worksheet 4.0, Description of Immediate Receiving Waters**

Observation of Receiving Waters From 2014 Permit application

4e Outfall 001 discharges into a drainage ditch that parallels the Frontage Road of Interstate 10. Visual observations of the flow in the ditch were made as part of routine environmental inspections. The drainage ditch typically has water in it. The segment of the ditch where Outfall 001 discharges into the ditch is deeper than adjacent segments., and therefore retains water when other segments of the ditch have dried up.

In 2013, the ditch was completely dry for only four days of the year, from August 7 to August 10. These observations were made at 6:00 a.m. each morning. There were 13 consecutive days in August 2013 with no discharge from Outfall 001 before the ditch became completely dry. The previous measurable rainfall was on July 20, 2013, when rainfall totally 1.46 inches. The next measureable rainfall after the ditch dried up occurred on August 11, 2013, when the total rainfall was 0.14 inches.

**Worksheet 4.0, General Characteristics of Water Body**

5a Upstream of Outfall 001, the drainage ditch is influenced by stormwater runoff from Interstate 10 and its frontage road.

5b The water body is used to convey stormwater runoff.

PYKA PROPERTY LLC
1224 CHUCK DR
FRIENDSWOOD, TX 77546

ALI MUJAHID & SHUI N WOO
5104 EULE DR
KATY, TX 77493

GORDON LATONIA H & RODNEY J
846 PYKA RD
SEALY, TX 77474

RUIZ LEOPOLDO
959 HINTZ RD
SEALY, TX 77474

CORDOVA ANTONIO & ROSAS JOSE
999 HINTZ RD
SEALY. TX 77474

LEVINE SIDNEY
PO BOX 592
SEALY, TX 77474

LEVINE SIDNEY
PO BOX 592
SEALY, TX 77474

MULTIPLE OWNERS

BARNES ROCHELLE LOUANN
1327 HINTZ RD
SEALY, TX 77474

BARNES ROCHELLE LOUANN
1327 HINTZ RD
SEALY, TX 77474

ROSAS RAUL S SR & ELIDUVINA
1061 HINTZ RD
SEALY, TX 77474

TREJO BRENDA & JULIO
1812 SETTLERS COURT DR
SEALY, TX 77474

INOCENCIO MIRAMONTES
18306 TUPPER BEND LN
CYPRESS, TX 77433

MACHADO RONOLDIN
1453 HINTZ RD
SEALY, TX 77474

MAZOCH HENRY F
1473 HINTZ RD
SEALY, TX 77474

AUSTIN COUNTY
1 E MAIN ST
BELLVILLE, TX 77418

AUSTIN COUNTY
1 E MAIN ST
BELLVILLE, TX 77418

MILES WILLIAM R SR ESTATE & MARY L
1496 HINTZ RD
SEALY. TX 77474

KEPLER BENJAMIN L
1779 SETTLERS COURT
SEALY, TX 77474

STRICKER CRYSTAL K
1811 SETTLERS CT
SEALY, TX 77474

BERGER JEFFREY ALLEN
1933 SETTLERS CRT DR
SEALY, TX 77474

FIERRO-NIEVA JAIME M
1963 SETTLERS CR DR
SEALY, TX 77474

AVALOS JESUS ANGEL & ELIZABETH
527 BARREN OAK LN
CROSBY. TX 77532

DEBERRY GAYLE LOCKE
2035 SETTLERS COURT DR
SEALY, TX 77474

GRAY TRACI D & TROY S
2065 SETTLERS COURT DR
SEALY, TX 77474

SCOTT KEVIN L
2097 SETTLERS COURT DR
SEALY, TX 77474

SCOTT KERRY
2129 SETTLERS CT DR
SEALY, TX 77474

ROBINSON/LANE LAND PARTNERSHIP
120 CANTERBURY HILL
SAN ANTONIO. TX 78209

ROBINSON/LANE LAND PARTNERSHIP
120 CANTERBURY HILL
SAN ANTONIO. TX 78209

STATE OF TEXAS

125 EAST 11TH ST

AUSTIN, TX 78701

CITY OF SEALY

415 MAIN ST

SEALY, TX 77474

ROBINSON/LANE LAND PARTNERSHIP

120 CANTERBURY HILL

SAN ANTONIO. TX 78209

AUSTIN COUNTY

1 E MAIN ST

BELLVILLE, TX 77418

GEOSOUTHERN INTERMEDIATE HOLDINGS LLC

1425 LAKE FRONT CIR STE 200

THE WOODLANDS. TX 77380

# Comisión de Calidad Ambiental del Estado de Texas

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

**PERMISO NO. WQ000_____**

**SOLICITUD.** Hailiang Copper Texas Inc, 1142 South Diamond Bar Boulevard, Suite 370, Diamond Bar, California 91765 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0002462000 (EPA I.D. No. TX 0085936) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la adición de un nuevo proceso de instalación de tuberías de cobre que generará aguas residuales de proceso. La planta está ubicada 5000 Interstate Highway 10, Sealy en el Condado de Austin, Texas 77474. La ruta de descarga es del sitio de la planta a una zanja de drenaje, de allí a Little Bernard Creek, de allí a East Bernard Creek, de allí a San Bernard Creek Above Tidal. La TCEQ recibió esta solicitud el día 7 de octubre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Ayuntamiento de Sealy, 415 Main Street, Sealy, en el condado de Austin, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.218611,29.76&level=18

*Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary and is an application for a major amendment which will increase the pollutant loads to coastal waters or would result in relocation of an outfall to a critical area, or a renewal with such a major amendment. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. If the application is for amendment that does not meet the above description or a renewal without such a major amendment, do not include the sentence:*
El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es

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

**COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

**Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya**

**presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

También se puede obtener información adicional del Hailiang Copper Texas Inc a la dirección indicada arriba o llamando a Mr. Jonathan Martensen, Consolidated Asset Management Services, Inc., al 713-457-5232.

Fecha de emisión _____ *[Date notice issued]*

910 Louisiana St, Suite 2400
Houston, TX 77002
(P) (713) 358-9700
camsesparc.com

October 07, 2024 Sent via *FedEx*

Executive Director
Applications Review and Processing Team MC-148
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Subject: Hailiang Copper Texas Inc
CN605607233
RN102411352
Permit No. WQ0002462000

Dear Applications Team,

On behalf of Hailiang Copper Texas Inc, CAMS eSPARC, LLC ("eSPARC") is submitting this Texas Pollutant Discharge Elimination System ("TPDES") application for renewal with amendment of Permit No. WQ0002462000 at Hailiang Copper Texas Inc ("Hailiang" or "the Facility"). The Facility plans to introduce a new pipe-fitting industrial process, which will require the discharge of process wastewater in the amount of around 1,749.2 gallons per day.

Please note that due to the outstanding renewal application in STEERS, this application is being submitted physically and electronically via the FTPS site. Hailiang requests that the existing application be withdrawn and replaced with this application with amendment upon receipt.

eSPARC contacted Mr. Alexander Owens at the TCEQ for assistance with this process. Mr. Owens advised that sampling information obtained for the previous renewal application would be sufficient for the purpose of this application, and subsequent sampling will occur after the addition of the new pipe-fitting process.

Enclosed with this transmittal letter is the original copy of the application.

An electronic payment in the amount of $1250 was submitted to TCEQ via ePay. The ePay Trace Number, Voucher Number and a copy of the payment receipt are included with this application.

Please contact me at 713-358-9748 or tnewhouse@camstex.com if you have any questions or need additional information.

Sincerely,

*Thomas Newhouse*

Thomas Newhouse
CAMS eSPARC, LLC

CC:
Mr. Lucian Hill, Environmental Director, CAMS eSPARC, lhill@camstex.com
Mr. Dennis Zurek, Property Manager, Hailaing, Dennis.Zurek@Hailiangusa.com

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Hailiang Copper Texas Inc

PERMIT NUMBER (If new, leave blank): WQ00 0002462000

**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: Hailiang Copper Texas Inc

Permit No.: WQ0002462000

EPA ID No.: TX0085936

Expiration Date: 07/11/2024

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: Addition of a new copper pipe fitting process that will generate process wastewater from the cleaning of the fittings. A new IWTP will be installed as well. There will be a small increase in water usage and additional pollutants in the effluent profile.

For TCEQ Use Only

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

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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: 582EA000628227

Copy of voucher attachment: **A – TCEQ Voucher Payment**

## Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN605607233

**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: Hailiang Copper Texas Inc

**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): Hu Wang

Title: President Credential: Click to enter text.

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

☒ Yes ☐ No

[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

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: **B – Core Data Form**

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

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

a. ☒ Administrative Contact . ☐ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Dennis Zurek Jr

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: Consolidated Asset Management Services, Inc

Mailing Address: 910 Louisiana Street, Suite 2500 City/State/Zip: Houston/TX/77002

Phone No: 713-457-5232 Email: jmartensen@camstex.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: Ms. Full Name (Last/First Name): Ranee Cheng

Title: Secretary Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-977-3090 Email: raneec@hailiangusa.com

b. Prefix: Mr. Full Name (Last/First Name): Dennis Zurek

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.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: Ms. Full Name (Last/First Name): Ranee Chang

Title: Secretary Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 Diamond Bar Blvd City/State/Zip: CA

Phone No: 626-297-2992 Email: raneec@hailiangusa.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): Dennis Zurek Jr

Title: Property Manager Credential: Click to enter text.

Organization Name: Hailiang Copper Texas Inc

Mailing Address: 5000 I-10 W City/State/Zip: Sealy/TX/77474

Phone No: 626-636-5520 Email: dennis.zurek@hailiangusa.com

## Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Mr. Full Name (Last/First Name): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: CAMS

Mailing Address: 910 Louisiana St, STE 2500 City/State/Zip: Houston/TX/77002

Phone No: 713-457-5232 Email: jmartensen@camstex.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: jmartensen@camstex.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): Jonathan Martensen

Title: Senior Environmental Associate Credential: Click to enter text.

Organization Name: CAMS

Phone No: 713-457-5232 Email: jmartensen@camstex.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: Sealy City Hall Location within the building: Public Notice Board

Physical Address of Building: 415 Main Street

City: Sealy County: Austin

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: **C – Plain Language Summary**

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

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN102411352

**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): Hailiang Copper Texas Inc

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: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-297-2992 Email: raneec@hailiangusa.com

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

f. Owner of land where treatment facility is or will be: Hailiang Copper Texas Inc

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

or Organization Name: Hailiang Copper Texas Inc

Mailing Address: 1142 S Diamond Bar Blvd, STE 370 City/State/Zip: Diamond Bar/CA/91765-2203

Phone No: 626-297-2992 Email: raneec@hailiangusa.com

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

g. Owner of effluent TLAP disposal site (if applicable): Click to enter text.

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

or Organization Name: Click to enter text.

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

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

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

☐ Yes ☒ No

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

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

Attachment: **E – USGS Topographic Map**

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

☒ Yes ☐ No or New Permit

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

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

☐ Yes ☒ No or New Permit

If no, or a new application, provide an accurate location description: Final point of discharge correct. New internal outfall being used, located at new IWTP.

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: The new wastewater treatment plant will discharge to a drainage ditch which feeds a detention pond in the northeast portion of the site. From here water is pumped to another swale, ultimately leading to the retention pond and final outfall 001 on the southern end of the site.

f. City nearest the outfall(s): Sealy

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

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: **F – Authorization to Discharge**

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: Click to enter text.

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

☐ Yes No or New Permit ☐ Click to enter text.

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

j. City nearest the disposal site: Click to enter text.

k. County in which the disposal site is located: Click to enter text.

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

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

## 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: WQ0002462000

Applicant Name: Hailiang Copper Texas Inc

Certification: I, Hu Wang, 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): Hu Wang

Signatory title: President

Signature: _____ Date: _____

(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this _____ day of _____, 20_____.

My commission expires on the _____ day of _____, 20_____.

_____

Notary Public [SEAL]

_____

County, Texas

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

# INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☒ The applicant's property boundaries.

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

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

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

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

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

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

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

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

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

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

Attachment: **G – Affected Landowner Map**

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

☒ Readable/Writeable CD ☐ Four sets of labels

Attachment: **H – Cross Reference List**

d. Provide the source of the landowners' names and mailing addresses:
https://esearch.austincad.org/

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: **I – Original Photographs and Map**

# 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: J - SPIF**

# ATTACHMENT A
# TCEQ ePay Voucher

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 724358 |
| **Trace Number:** | 582EA000628227 |
| **Date:** | 10/07/2024 02:46 PM |
| **Payment Method:** | CC - Authorization 0000007413 |
| **Voucher Amount:** | $1,200.00 |
| **Fee Type:** | WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT |
| **ePay Actor:** | GEORGE NEWHOUSE |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | THOMAS NEWHOUSE |
| **Company:** | CAMS TEXAS LLC |
| **Address:** | 910 LOUISIANA ST STE 2400, HOUSTON, TX 77002 |
| **Phone:** | 713-358-9748 |

**Site Information**

| | |
|---|---|
| **Site Name:** | HAILIANG COPPER TEXAS INC |
| **Site Address:** | 5000 I-10 W, SEALY, TX 77474 |
| **Site Location:** | 5000 I-10 W SEALY TX 77474 |

**Customer Information**

| | |
|---|---|
| **Customer Name:** | HAILIANG COPPER TEXAS INC |
| **Customer Address:** | 1142 S DIAMOND BAR BLVD STE370, DIAMOND BAR, CA 91765 2203 |
| **State Tax ID:** | 32068710592 |

**Other Information**

| | |
|---|---|
| **Program Area ID:** | 0002462000 |
| **Comments:** | Renewal is in process, this will replace renewal. |

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 724359 |
| **Trace Number:** | 582EA000628227 |
| **Date:** | 10/07/2024 02:46 PM |
| **Payment Method:** | CC - Authorization 0000007413 |
| **Voucher Amount:** | $50.00 |
| **Fee Type:** | 30 TAC 305.53B WQ NOTIFICATION FEE |
| **ePay Actor:** | GEORGE NEWHOUSE |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | THOMAS NEWHOUSE |
| **Company:** | CAMS TEXAS LLC |
| **Address:** | 910 LOUISIANA ST STE 2400, HOUSTON, TX 77002 |
| **Phone:** | 713-358-9748 |

# ATTACHMENT B
## Core Data Form

TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

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

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

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

| 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 605607233 | | RN 102411352 |

## SECTION II: Customer Information

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

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

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

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

Hailiang Copper Texas Inc

| 7. TX SOS/CPA Filing Number | 8. TX State Tax ID (11 digits) | 9. Federal Tax ID (9 digits) | 10. DUNS Number *(if applicable)* |
|---|---|---|---|
| 803146085 | 32068710592 | 832271146 | |

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

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

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

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

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

**15. Mailing Address:**

1142 S Diamond Bar Blvd, STE 370

| City | Diamond Bar | State | CA | ZIP | 91765 | ZIP + 4 | 2203 |
|---|---|---|---|---|---|---|---|

| 16. Country Mailing Information *(if outside USA)* | 17. E-Mail Address *(if applicable)* |
|---|---|
| | raneec@hailiangusa.com |

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

| | | |
|---|---|---|
| ( 626 ) 297-2992 | | ( 909 ) 869-8098 |

# SECTION III: Regulated Entity Information

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

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

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

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

Hailiang Copper Texas Inc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | 5000 INTERSTATE 10 FRONTAGE RD | | | | | | | |
| | | | | | | | | |
| | **City** | Sealy | **State** | TX | **ZIP** | 77474 | **ZIP + 4** | |
| **24. County** | Austin | | | | | | | |

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

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

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

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

| | | | |
|---|---|---|---|
| **29. Primary SIC Code** (4 digits) | **30. Secondary SIC Code** (4 digits) | **31. Primary NAICS Code** (5 or 6 digits) | **32. Secondary NAICS Code** (5 or 6 digits) |
| 3351 | 6512 | 331410 | |

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

Copper Tubing Manufacturing

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | **1142 S Diamond Bar Blvd, STE 370** | | | | | | | |
| | | | | | | | | |
| | **City** | **Diamond Bar** | **State** | **CA** | **ZIP** | **91765** | **ZIP + 4** | **2203** |
| **35. E-Mail Address:** | **raneec@hailiangusa.com** | | | | | | | |

| | | |
|---|---|---|
| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
| **( 626 ) 297-2992** | | **( 909 ) 869-8098** |

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

| | | | | |
|---|---|---|---|---|
| ☐ Dam Safety | ☐ Districts | ☐ Edwards Aquifer | ☐ Emissions Inventory Air | ☐ Industrial Hazardous Waste |
| | | | | |
| ☐ Municipal Solid Waste | ☐ New Source Review Air | ☐ OSSF | ☐ Petroleum Storage Tank | ☐ PWS |
| | | | | |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☒ Wastewater | ☐ Wastewater Agriculture | ☐ Water Rights | ☐ Other: |
| | WQ0002462000 | | | |

## SECTION IV: Preparer Information

| | | | |
|---|---|---|---|
| **40. Name:** | Jonathan Martensen | **41. Title:** | Senior Environmental Associate |

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| **(** 713 **)** 457-5232 | | **(  )** - | jmartensen@camstex.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:** | Hailiang Copper Texas Inc | **Job Title:** | President |
| **Name** *(In Print):* | Hu Wang | **Phone:** | **(** 626 **)** 977- **3090** |
| **Signature:** | | **Date:** | |

# ATTACHMENT C
## Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

Hailiang Copper Texas, Inc. (CN6005607233) operates the Hailiang Facility (RN102411352), a a copper tubing manufacturing facility. The facility is located at 5000 I-10 West, in Sealy, Austin County, Texas 77474. This application is for a major amendment with renewal for a permit to discharge treated wastewater at a volume not to exceed 395,000 gallons per day via Outfall 001, 201, and 301 .

Discharges from the facility are expected to contain Total suspended solids (TSS), E. coli, oil and grease, Alkaline and acidic wastewater (3 – 11 S.U.), organic material (COD), hexavalent chromium, phosphorus, chromium, ammonia, copper, sulfide, lead, and zinc. Industrial wastewater will be treated by the following treatment process: Industrial wastewater is collected in a holding tank. The water passes through an oil-water separator and then enters an air flotation tank where coagulants are added, and floating sludge is removed. The wastewater then enters an electrocoagulation unit which generates ferrous ions. These ions are oxidized in an aeration tank then the wastewater enters a precipitation unit where the

metal ions and suspended solids are removed. The wastewater then enters the electrocatalytic oxidation unit, which attacks organic pollutants using hydroxyl radicals. The wastewater then goes through a secondary coagulation and sedimentation unit before entering the membrane bioreactor system (MBR). This system uses an anaerobic and aerobic treatment process to fully oxidize and decompose organic materials and ammonia nitrogen. The MBR generates activated sludge, most of which is recycled, and the remaining is sent to the sludge treatment process. The wastewater then undergoes ultraviolet disinfection before entering a storage tank and then a sand and carbon filtration system. After the sand and carbon filtration, the wastewater is stored in a raw water tank before entering the reverse osmosis (RO) system. The RO system uses osmotic pressure to force water through a membrane while keeping the solutes in a concentrated state on the other side. The permeated pure water is recycled back into the industrial process. The RO non-permeable concentrate is further treated via Fenton Fluidized Bed Technology to treat organic matter and then undergoes one last precipitation reaction before being discharged to Outfall 201. The treated wastewater flows to the detention pond and then to the retention pond before finally discharging via Outfall 001. Industrial sludge is collected in a sludge collection tank where it then enters a plate and frame filter press for drying before disposal. The water generated from the filter press enters the acid-washing wastewater tank, which feeds into the MBR. Domestic wastewater will be treated by the following treatment process: Wastewater is collected in a holding tank. The water from the tank passes through a bar screen and into an extended aeration basin. The partially treated water from the basin flows into the clarifier, where the solids are removed and placed in a sludge-thickening chamber. The cleaned water from the clarifier is processed through a chlorine contact chamber as a final treatment before discharge at Outfall 301, which then flows to Outfall 001. Larger suspended solids directly precipitate and flow through the sludge discharge pipe, after which they are discharged to the sludge tank. For smaller suspended solids, a mix flotation system along with a coagulative precipitation tank and bacteria filter is used to treat the wastewater. Afterward, it flows to the retention pond at the Facility and is discharged out of Outfall 001.

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

**AGUAS RESIDUALES** INDUSTRIALES **/AGUAS PLUVIALES**

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

Hailiang Copper Texas, Inc. (CN6005607233) opera las instalaciones de Hailiang (RN102411352), un Planta de fabricación de tubos de cobre. La instalación está ubicada en 5000 I-10 West, en Sealy, Condado de Austin, Texas 77474. Esta solicitud es para una enmienda importante con la renovación de un permiso para descargar aguas residuales tratadas a un volumen que no exceda los 395,000 galones por día a través de los desagües 001, 201 y 301. *<<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 Sólidos suspendidos totales (TSS), E. coli, aceites y grasas, aguas residuales alcalinas y ácidas (3 – 11 S.U.), material orgánico (COD), cromo hexavalente, fósforo, cromo, amoníaco, cobre, sulfuro, plomo y zinc. Aguas residuales industriales. estará tratado por el siguiente proceso de tratamiento: Las aguas residuales industriales se recogen en un tanque de retención. El agua pasa a través de un separador de agua y aceite y luego ingresa a un tanque de flotación de aire donde se agregan coagulantes y se eliminan los lodos flotantes. A continuación, las aguas residuales entran en una unidad de electrocoagulación que genera iones ferrosos. Estos iones se oxidan en un tanque de aireación, luego las aguas residuales ingresan a una unidad de precipitación donde se eliminan los iones metálicos y los sólidos en suspensión. A continuación, las aguas residuales entran en la unidad de oxidación electrocatalítica, que ataca los contaminantes orgánicos mediante radicales hidroxilo. A continuación, las aguas residuales pasan por una unidad secundaria de coagulación y sedimentación antes de entrar en el sistema de biorreactor de membrana (MBR). Este sistema utiliza un proceso de tratamiento anaeróbico y aeróbico para oxidar y descomponer completamente los materiales orgánicos y el nitrógeno amoniacal. El MBR genera lodos activados, la mayoría de los cuales se reciclan, y el resto se envía al proceso de tratamiento de lodos. Luego, las aguas residuales se someten a una desinfección ultravioleta antes de ingresar a un tanque de almacenamiento y luego a un sistema de filtración de arena y carbón. Después de la filtración de arena y carbón, las aguas residuales se almacenan en un tanque de agua cruda antes de ingresar al sistema de ósmosis inversa (RO). El sistema de ósmosis inversa utiliza la presión osmótica para forzar el agua a través de una membrana mientras mantiene los solutos en un estado concentrado en el otro lado. El agua pura permeada se recicla de nuevo en el proceso industrial. El concentrado no permeable de ósmosis inversa se trata aún más a través de la tecnología de lecho fluidizado de Fenton para tratar la materia orgánica y luego se somete a una última reacción de precipitación antes de ser descargado en el desagüe 201. Las aguas residuales tratadas fluyen hacia el estanque de retención y luego al estanque de retención antes de descargarse finalmente a través del emisario 001. Los lodos industriales se recogen en un tanque de recolección de lodos donde luego ingresan a un filtro prensa de placa y marco para su secado antes de su eliminación. El agua generada por el filtro prensa ingresa al tanque de aguas residuales de lavado ácido, que alimenta el MBR. Las aguas residuales domésticas se tratarán mediante el siguiente proceso de tratamiento: Las aguas residuales se recogen en un tanque de retención. El agua del tanque pasa a través de una pantalla de barra y entra en una cuenca

de aireación extendida. El agua parcialmente tratada de la cuenca fluye hacia el clarificador, donde los sólidos se eliminan y se colocan en una cámara de espesamiento de lodos. El agua limpia del clarificador se procesa a través de una cámara de contacto con cloro como tratamiento final antes de la descarga en el desagüe 301, que luego fluye al desagüe 001. Los sólidos suspendidos más grandes precipitan y fluyen directamente a través de la tubería de descarga de lodos, después de lo cual se descargan al tanque de lodos. Para los sólidos suspendidos más pequeños, se utiliza un sistema de flotación de mezcla junto con un tanque de precipitación coagulativo y un filtro de bacterias para tratar las aguas residuales. Posteriormente, fluye hacia el estanque de retención de la instalación y se descarga desde el desagüe 001..

# ATTACHMENT D
# Public Involvement Plan

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.

## Section 5. Community and Demographic Information

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

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

(City)

(County)

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

☐ City ☐ County ☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

## Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

## Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

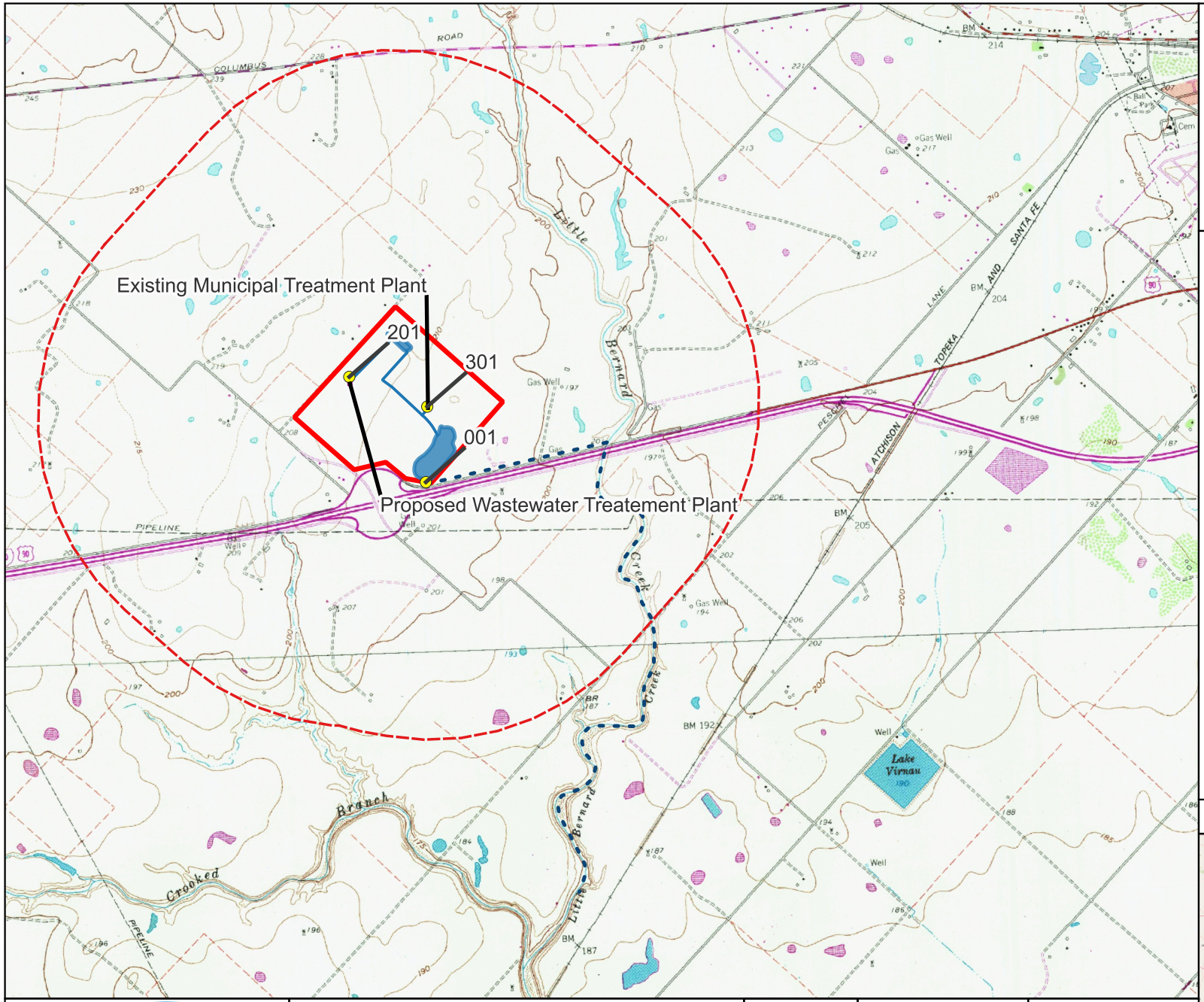
☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

# ATTACHMENT E
# USGS Topographic Map




N

0 2,000 4,000 ft

## Legend:

- Property Boundary
- 1 Mile Radius
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 3-Miles /Downstream

Project Location


eSPARC
A CAMS COMPANY

Attachment E
TPDES Permit Renewal
USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-22 |

# ATTACHMENT F
## Authorization to Discharge

**From:** Thomas Newhouse
**To:** ryan.simper@txdot.gov; michael.brzozowski@txdot.gov
**Cc:** woodrow.jasek@txdot.gov; Lucian Hill; Jonathan Martensen
**Subject:** Hailiang Copper Facility Authorization To Discharge
**Date:** Tuesday, August 20, 2024 2:31:00 PM
**Attachments:** Hailiang Copper Texas Wastewater Treatment Plant Technical Protocol edit.pdf
2019-07-11 Hailiang TPDES Permit.pdf
image001.emz
image003.png
image004.png

---

Good afternoon,

After speaking with Mr. Jasek on the phone, I was instructed to contact you regarding an authorization letter to discharge into a TxDOT drainage ditch. Below, you will find information regarding Hailiang Copper's industrial wastewater permit amendment.

Hailiang is located at 5000 I-10 W Sealy, Texas 77474, within CSJ 0271-02. The facility currently operates under a TPDES permit which authorizes discharge of treated municipal wastewater and stormwater from a retention pond through outfall 001 at the property's southwest corner. The discharge enters a drainage ditch that runs along I-10 before entering Little Bernard Creek. Hailiang plans to add a new pipefitting process that will generate wastewater and requires an amendment of its permit. Part of the amendment process involves obtaining a letter of authorization to discharge into a State Highway ROW Drainage Ditch.

Please find the existing permit and information about the new process, waste streams, and drainage route attached and below:

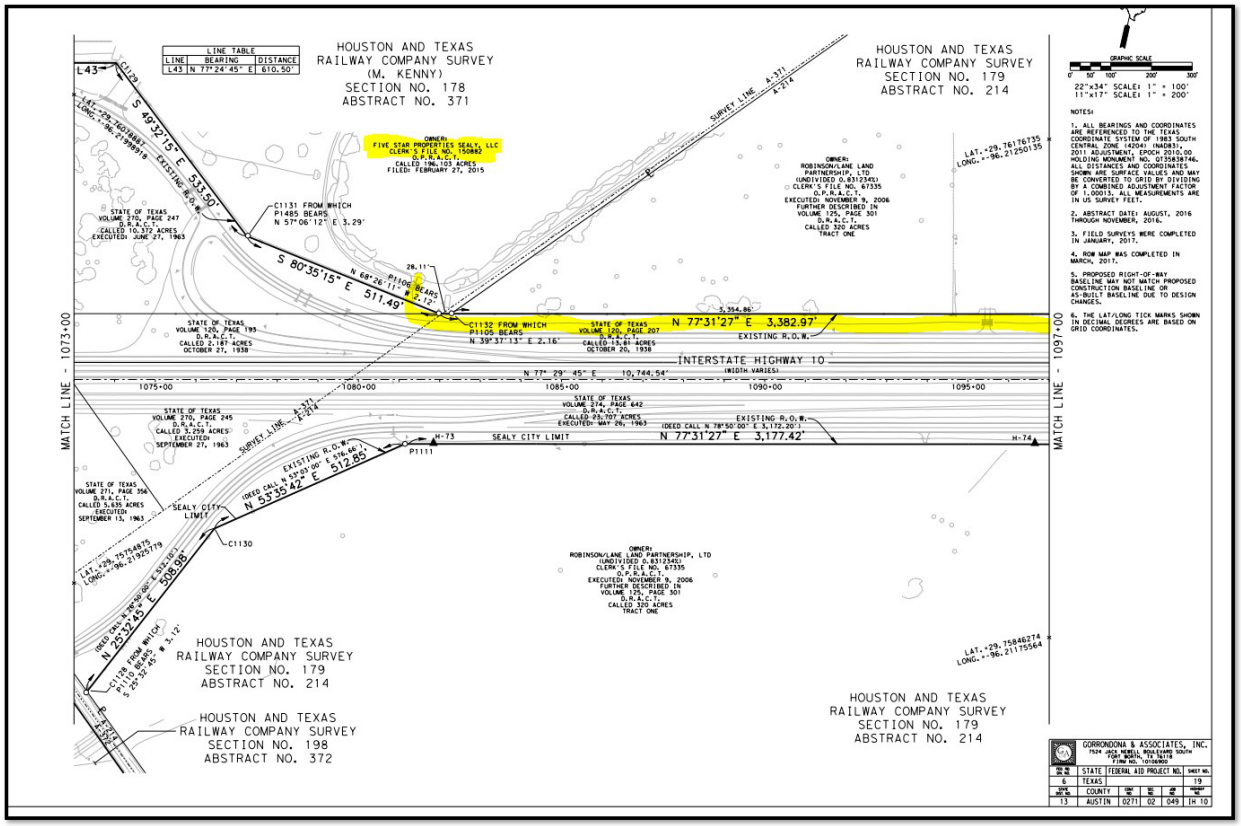
- Hailiang will add copper pipe fitting and coupling processes producing wastewater.
- The new wastewater will enter an industrial wastewater treatment plant. After treatment, about 1,749 gallons per day of wastewater will enter a detention pond for further settling. The water will then be pumped to the facility's retention pond and ultimately discharge through Outfall 001.

- **Items to be added to the TPDES Permit**
  - New internal outfall
  - New wastewater treatment facility
    - Components of treatment process:
      - See the attached treatment process diagram
  - Wastewater sources:
    - Coating and cleaning wastewater
      - Black-coating cleaning wastewater
      - Vibrate-through cleaning wastewater
      - Semi-finished products cleaning wastewater
    - Only ~25% or ~1,749 gallons will be discharged from the new processes
  - Wastewater effluent profile:
    - Alkaline and acidic wastewater (3 – 11 S.U.)
    - petroleum substances
    - organic material (COD)
    - suspended solids
    - hexavalent chromium
    - phosphorus
    - chromium
    - ammonia
    - copper
    - sulfide
    - lead
    - zinc

Discharge Standards after Treatment

| Item | pH (S.U.) | TSS (mg/L) | CODcr (mg/L) | NH3N (mg/L) | Total P (mg/L) | Petroleum Substances (mg/L) | Total Cu (mg/L) | Total Zn (mg/L) | Total Pb (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| Value | 6.5-8.5 | 60 | 60 | 15 | 1 | 1 | 2.0 | 1.0 | 1.0 |

CSJ 0271-02 with Drainage Ditch Highlighted



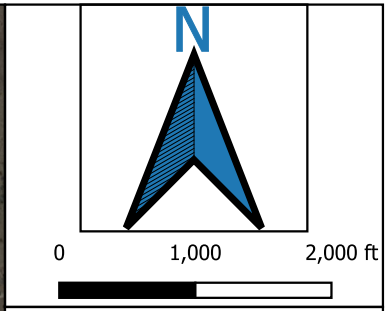

*Please note the map still lists Five Star as the owner, this is not up to date. Hailiang Copper purchased the land from Five Star.

Please let me know if you have any questions or need any additional information from me.

Thank you,

Thomas Newhouse
Environmental Associate I
Work: 713.358.9748
Cell: 281.685.3504
tnewhouse@camstex.com

# ATTACHMENT G
## Affected Landowner Map


## Legend:

- Property Boundary
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 1-Mile Downstream
- Affected Landowners

Project Location


eSPARC
A CAMS COMPANY

# Attachment E
# TPDES Permit Renewal
# USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-23 |

# ATTACHMENT H
## Cross Reference List

| Map ID | Name of Owner | Mailing Address | | | |
|---|---|---|---|---|---|
| 0 | N/A | N/A | N/A | N/A | N/A |
| 1 | PYKA PROPERTY LLC | 1224 CHUCK DR | FRIENDSWOOD | TX | 77546 |
| 2 | ALI MUJAHID & SHUI N WOO | 5104 EULE DR | KATY | TX | 77493 |
| 3 | GORDON LATONIA H & RODNEY J | 846 PYKA RD | SEALY | TX | 77474 |
| 4 | RUIZ LEOPOLDO | 959 HINTZ RD | SEALY | TX | 77474 |
| 5 | CORDOVA ANTONIO & ROSAS JOSE | 999 HINTZ RD | SEALY | TX | 77474 |
| 7 | LEVINE SIDNEY | PO BOX 592 | SEALY | TX | 77474 |
| 8 | LEVINE SIDNEY | PO BOX 592 | SEALY | TX | 77474 |
| 9 | MULTIPLE OWNERS | | | | |
| 10 | BARNES ROCHELLE LOUANN | 1327 HINTZ RD | SEALY | TX | 77474 |
| 11 | BARNES ROCHELLE LOUANN | 1327 HINTZ RD | SEALY | TX | 77474 |
| 12 | ROSAS RAUL S SR & ELIDUVINA | 1061 HINTZ RD | SEALY | TX | 77474 |

| | | | | | |
|---|---|---|---|---|---|
| 12 | TREJO BRENDA & JULIO | 1812 SETILERS COURT DR | SEALY | TX | 77474 |
| 13 | INOCENCIO MIRAMONTES | 18306 TUPPER BEND LN | CYPRESS | TX | 77433 |
| 14 | MACHADO RONOLDIN | 1453 HINTZ RD | SEALY | TX | 77474 |
| 15 | MAZOCH HENRY F | 1473 HINTZ RD | SEALY | TX | 77474 |
| 16 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |
| 17 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |
| 18 | MILES WILLIAM R SR ESTATE & MARY L | 1496 HINTZ RD | SEALY | TX | 77474 |
| 19 | KEPLER BENJAMIN L | 1779 SETILERS COURT | SEALY | TX | 77474 |
| 20 | STRICKER CRYSTAL K | 1811 SETILERS CT | SEALY | TX | 77474 |
| 21 | BERGER JEFFREY ALLEN | 1933 SETILERS CRT DR | SEALY | TX | 77474 |
| 22 | FIERRO-NIEVA JAIME M | 1963 SETILERS CR DR | SEALY | TX | 77474 |
| 23 | AVALOS JESUS ANGEL & ELIZABETH | 527 BARREN OAK LN | CROSBY | TX | 77532 |
| 24 | DEBERRY GAYLE LOCKE | 2035 SETILERS COURT DR | SEALY | TX | 77474 |

| | | | | | |
|---|---|---|---|---|---|
| 25 | GRAY TRACI D & TROY S | 2065 SETILERS COURT DR | SEALY | TX | 77474 |
| 26 | SCOTT KEVIN L | 2097 SETILERS COURT DR | SEALY | TX | 77474 |
| 27 | SCOTT KERRY | 2129 SETILERS CT DR | SEALY | TX | 77474 |
| 28 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 29 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 30 | STATE OF TEXAS | 125 EAST 11TH ST | AUSTIN | TX | 78701 |
| 31 | ROBINSON/LANE LAND PARTNERSHIP | 120 CANTERBURY HILL | SAN ANTONIO | TX | 78209 |
| 32 | GEOSOUTHERN INTERMEDIATE HOLDINGS LLC | 1425 LAKE FRONT CIR STE 200 | THE WOODLANDS | TX | 77380 |
| 33 | CITY OF SEALY | 415 MAIN ST | SEALY | TX | 77474 |
| 34 | AUSTIN COUNTY | 1 E MAIN ST | BELLVILLE | TX | 77418 |

# ATTACHMENT I
## Original Photographs and Map

- 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:

Fig. 1: Discharge from Weir to Reservoir, facing North.


Fig. 2: Drainage ditch to Little Bernard Creek, facing East.

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

Fig. 3: New WWTP Location, facing Southwest


N

0 400 800 ft

## Legend:

- Property Boundary
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- Photo Direction

Project Location


eSPARC
A CAMS COMPANY

Attachment I
TPDES Permit Renewal
Site Photograph Locations

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-23 |

# ATTACHMENT J
# SPIF

# 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: Hailiang Copper Texas Inc

   Permit No. WQ00 02462000 EPA ID No. TX 0085936

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

   5000 Interstate 10 W, Sealy, TX 77474

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Jonathan Martensen

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

Title: Senior Environmental Associate

Mailing Address: 910 Louisiana St, STE 2400

City, State, Zip Code: Houston, TX, 77002

Phone No.: 713-457-5232 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jmartensen@camstex.com

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

   Click here to enter text.

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.

   Effluent is discharged to a drainage ditch abutting IH-10; then to Little Bernard Creek; then to East Bernard Creek; then to the San Bernard River Above Tidal Segment to No. 1302 of the Brazos Colorado Coastal Basin.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). **SPIF Attachment A – USGS Map**

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

   Attachment: 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):

Small vegetated area, < 1 acre, on the northeast corner of the copper tubing building will be cleared and leveled for the new WWTP.

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

Approximately 200-acre site with multiple warehouses and manufacturing buildings. The remainder of the property is employee parking and native grasslands.

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

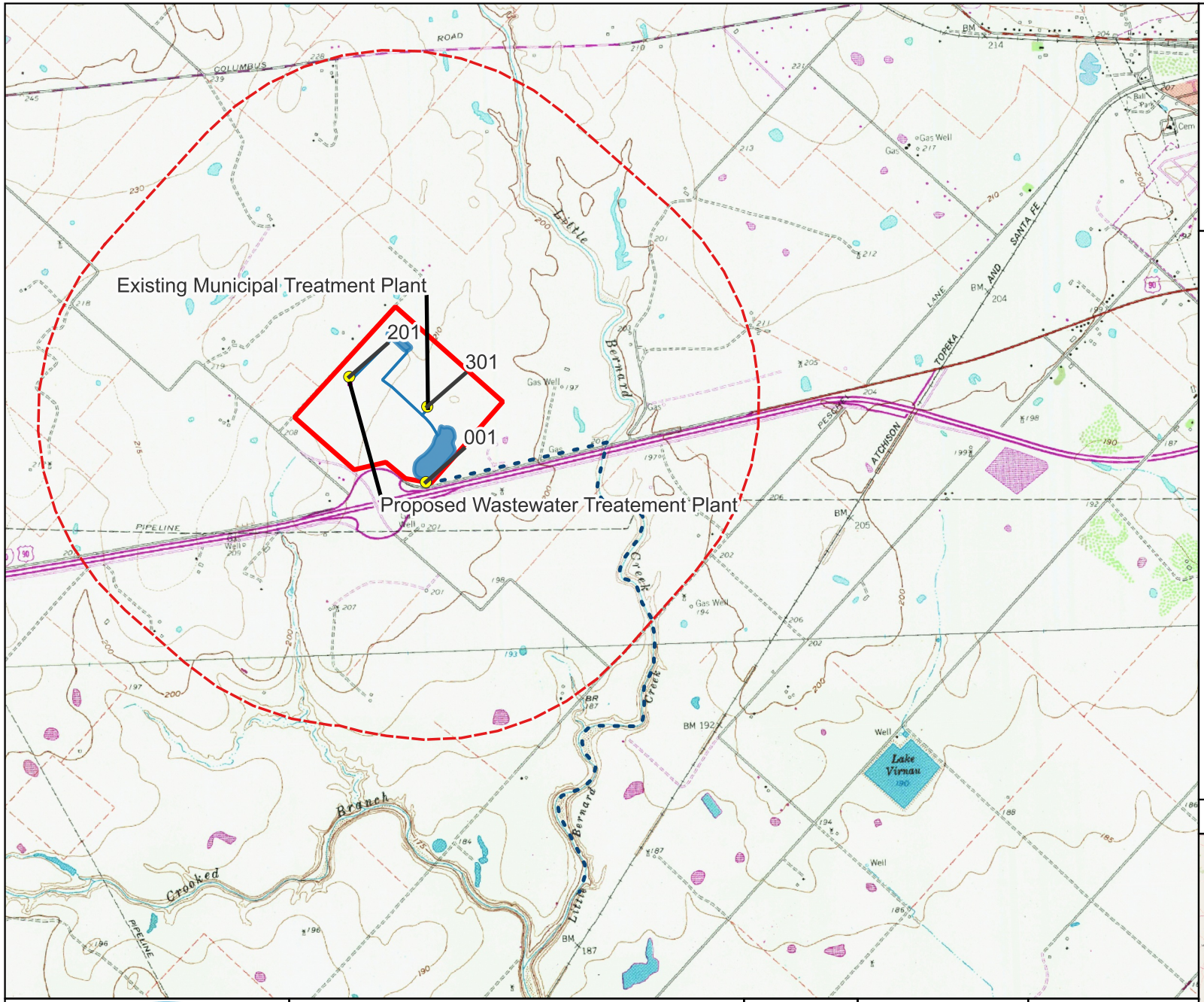
3. List construction dates of all buildings and structures on the property:

1980- Original Building; 2001- Fabrication Building built; 2006- Additional building constructed, 2020- Construction of Copper Tubing Facility. 2025 – New WWTP will be constructed.

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

The original site was in agricultural use until 1980 when the first industrial building was constructed. The original manufacturing was oil field equipment manufacturing. In 1990, the site was converted into a military truck assembling facility. Currently, the site serves as an industrial complex.

# SPIF ATTACHMENT A
# USGS Topographic Map




N

0 2,000 4,000 ft

## Legend:

- Property Boundary
- 1 Mile Radius
- Treatment Facility Boundaries
- Discharge Routes
- Wastewater Ponds
- Outfalls
- 3-Miles /Downstream

Project Location


eSPARC
A CAMS COMPANY

SPIF Attachment A
TPDES Permit Renewal
USGS Topographic Map

| | | |
|---|---|---|
| Rev 1.0 | Hailiang Copper Texas Inc | Page 1 of 1 |
| Issued: JWM<br>Reviewed: TN | | Date:<br>2024-08-22 |

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

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

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

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

The facility, owned by Hailiang Copper Texas, Inc or "Hailiang", is an industrial park engaged in the management of the industrial property that is divided into lots for lease to various industrial lessees. Lessees are responsible for their own environmental permitting and compliance. Hailiang operates a copper tubing facility within the industrial park. The facility utilizes scrap copper, copper cathode, and recycled copper as raw materials and employ casting, milling, rolling, drawing, and annealing processes to manufacture copper tubing products including inner grooved tubes, level wound coils ("LWC"), and pancake coils. Hailiang is planning to add a new process to their facility involving the manufacturing of copper pipe fittings. This process will involve use of Hailiang's own or purchased copper tubing. The tubes will be cut pushed and compressed to form the pipe fittings. The fittings will be cleaned at two different stages along the process (three for copper rings).

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

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

Process wastewater will be generated with the addition of the copper pipe fitting production process. The process will form pipe fittings using cutting, pushing, and compressing of copper piping. Intermediate products are washed after cutting and before forming (semi-finished product cleaning wastewater). The forming process will use saponification to remove organic chemicals from the copper fittings. After forming and before packaging the parts are washed again (vibrate-through product cleaning wastewater). The vibrate-through cleaning process will use stainless steel balls. Copper rings specifically will have a third wash associated with an oxidized coating applied to the rings (black-coating cleaning wastewater), this wash utilizes non-metallic abrasive materials, likely pebbles. These wastewater streams will enter the new wastewater treatment plant. At maximum production, after treatment, about 2,011.6 gallons per day of the wastewater will be recirculated back into the production process for recycling and the remaining amount will be discharged. After treatment, about 1,749.2 gallons per day of wastewater will enter a detention pond for further settling, then will be pumped to the facility's retention pond and ultimately discharge through Outfall 001. Sanitary wastewater is generated on-site by current facility employees (and their guests) as well as lessees (employees, customers and guests). This water is collected in lift stations and transferred to the on-site treatment plant. The wastewater is subjected to physical, chemical, and biological treatment, after which, it is discharged from the facility's retention pond to Outfall 001.

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

**Materials List**

| **Raw Materials** | **Intermediate Products** | **Final Products** |
|---|---|---|
| Scrap Copper (CASRN: 7440-50-8) | Melted Copper (CASRN: 7440-50-8) | Annealed Copper Tubes (CASRN: 7440-50-8) |
| Copper Cathode (CASRN: 7440-50-8) | Copper Tube Billets (CASRN: 7440-50-8) | Inner Grooved Tubes (CASRN: 7440-50-8) |
| Recycled Copper (CASRN: 7440-50-8) | | Copper Pipe Fittings (CASRN: 7440-50-8) |
| | | |
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**Attachment:** Click to enter text.

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: A – Facility Map**

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA FIRM Map Number 48015C0325E, Revised September 3, 2010

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: Click to enter text.

**Attachment:** Click to enter text.

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: Click to enter text.

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

## Item 2. Treatment System (Instructions, Page 40)

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

Sanitary wastewater treatment process: Wastewater is collected in a holding tank. The water from the tank passes through a bar screen and into an extended aeration basin. The partially treated water from the basin flows into the clarifier, where the solids are removed and placed in a sludge thickening chamber. The cleaned water from the clarifier is processed through a chlorine contact chamber as final treatment prior to discharge at Outfall 301, which then flows to Outfall 001. Larger suspended solids directly precipitate, and flow through the sludge discharge pipe, after which they discharged to the sludge tank. For smaller suspended solids, a mix flotation system along with a coagulative precipitation tank and bacteria filter is used to treat the wastewater, after which, it flows to the retention pond at the Facility and is discharged out of Outfall 001.

Process wastewater treatment process: Wastewater is collected in a holding tank. The water passes through an oil-water separator and then enters an air flotation tank where coagulants are added, and floating sludge is removed. The wastewater then enters an electrocoagulation unit which generates ferrous ions. These ions are oxidized in an aeration tank then the wastewater enters a precipitation unit where the metal ions and suspended solids are removed. The wastewater then enters the electrocatalytic oxidation unit, which attacks organic pollutants using hydroxyl radicals. The wastewater then goes through a secondary coagulation and sedimentation unit before entering the membrane bioreactor system (MBR). This system uses an anaerobic and aerobic treatment process to fully oxidize and decompose organic materials and ammonia nitrogen. The MBR generates activated sludge, most of which is recycled, and the remaining is sent to the sludge treatment process. The wastewater then undergoes ultraviolet disinfection before entering a storage tank then a sand and carbon filtration system. After the sand and carbon filtration, the wastewater is stored in a raw water tank before entering the reverse osmosis (RO) system. The RO system uses osmotic pressure to force water through a membrane while keeping the solutes in a concentrated state on the other side. The permeated pure water is recycled back into the industrial process. The RO non-permeable concentrate is further treated via Fenton Fluidized Bed Technology to treat organic matter and then undergoes one last precipitation reaction before being discharged to Outfall 201. The treated wastewater flows to the detention pond and then to the retention pond before finally discharging via Outfall 001. Industrial sludge is collected in a sludge collection tank where it then enters a plate and frame filter press for drying before disposal. The water generated from the filter press enters the acid-washing wastewater tank, which feeds into the MBR.

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: B – Flow Balance Diagram**

## Item 3. Impoundments (Instructions, Page 40)

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

**Impoundment Information**

| **Parameter** | **Pond #** | **Pond #** | **Pond #** | **Pond #** |
|---|---|---|---|---|
| Use Designation: (T) (D) (C) or (E) | C | C | | |
| Associated Outfall Number | 001 | 201 | | |
| Liner Type (C) (I) (S) or (A) | C | C | | |
| Alt. Liner Attachment Reference | | | | |
| Leak Detection System, Y/N | N | TBD | | |
| Groundwater Monitoring Wells, Y/N | N | TBD | | |
| Groundwater Monitoring Data Attachment | N | TBD | | |
| Pond Bottom Located Above The Seasonal High-Water Table, Y/N | | | | |
| Length (ft) | 1110 | 525 | | |
| Width (ft) | 480 | 115 | | |
| Max Depth From Water Surface (ft), Not Including Freeboard | 8.6 | 6.9 | | |
| Freeboard (ft) | 2-4 | 1 | | |
| Surface Area (acres) | 12.2 | 2.23 | | |
| Storage Capacity (gallons) | 34.2 Million | 3.1 Million | | |
| *40 CFR Part 257, Subpart D,* Y/N | N | 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**.

1. Liner data

   ☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

   ☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

   ☐ Yes ☐ No ☐ Not yet designed

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

**Attachment:** Click to enter text.

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

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

**Attachment:** Click to enter text.

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

**Attachment:** Click to enter text.

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

**Attachment:** Click to enter text.

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

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

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

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

**Outfall Longitude and Latitude**

| Outfall No. | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) |
|---|---|---|
| 001 | 29.759764 | -96.217159 |
| 301 | 29.763934 | -96.216954 |
| 201 | 29.765476 | -96.222263 |

**Outfall Location Description**

| Outfall No. | Location Description |
|---|---|
| 001 | Discharge from Pond 1 into IH-10 drainage ditch |
| 301 | Manhole on the west side of sanitary treatment plant |
| 201 | Discharge from new industrial WWTP on northeast corner of main building |

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

| Outfall No. | Description of sampling point |
|---|---|
| 001 | At outfall 001, where effluent is discharged from Pond 1, prior to leaving company property |
| 301 | At outfall 301, where effluent is discharged from the domestic wastewater treatment unit, prior to mixing with other waters in Pond 1. |
| 201 | At outfall 201, where effluent is discharge from the industrial wastewater treatment unit, prior to mixing with other waters in Pond 2. |

**Outfall Flow Information – Permitted and Proposed**

| Outfall No. | Permitted Daily Avg Flow (MGD) | Permitted Daily Max Flow (MGD) | Proposed Daily Avg Flow (MGD) | Proposed Daily Max Flow (MGD) | Anticipated Discharge Date (mm/dd/yy) |
|---|---|---|---|---|---|
| 001 | 0.395 | 0.395 | 0.395 | 0.395 | Existing |
| 301 | 0.0618 | 0.0618 | 0.0618 | 0.0618 | Existing |
| 201 | TBD | TBD | TBD | TBD | TBD |

**Outfall Discharge – Method and Measurement**

| Outfall No. | Pumped Discharge? Y/N | Gravity Discharge? Y/N | Type of Flow Measurement Device Used |
|---|---|---|---|
| 001 | Y | N | Flow Meter |
| 301 | Y | N | Flow Meter |
| 201 | TBD | TBD | TBD |

**Outfall Discharge – Flow Characteristics**

| Outfall No. | Intermittent Discharge? Y/N | Continuous Discharge? Y/N | Seasonal Discharge? Y/N | Discharge Duration (hrs/day) | Discharge Duration (days/mo) | Discharge Duration (mo/yr) |
|---|---|---|---|---|---|---|
| 001 | Y | N | N | 24 | 31 | 12 |
| 301 | N | N | Y | 24 | 31 | 12 |

| Outfall No. | Intermittent Discharge? Y/N | Continuous Discharge? Y/N | Seasonal Discharge? Y/N | Discharge Duration (hrs/day) | Discharge Duration (days/mo) | Discharge Duration (mo/yr) |
|---|---|---|---|---|---|---|
| 201 | TBD | TBD | TBD | TBD | TBD | TBD |

**Outfall Wastestream Contributions**

**Outfall No. 001**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Internal Outfall 201 (Treated Process WW) | 0.00175 | |
| Internal Outfall 301 (Treated Sanitary WW) | 0.00372 | 2.42 |
| Intermittent rainfall | 0.04446 | 28.9 |
| | | |
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**Outfall No. 301**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Sanitary Wastewater | 0.00372 | 100 |
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**Outfall No. 201**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Industrial process wastewater | 0.00175 | 100 |
| | | |
| | | |
| | | |
| | | |

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**Attachment:** Click to enter text.

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

**Attachment:** Click to enter text.

c. Cooling Towers and Boilers

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

**Cooling Towers and Boilers**

| Type of Unit | Number of Units | Daily Avg Blowdown (gallons/day) | Daily Max Blowdown (gallons/day) |
|---|---|---|---|
| Cooling Towers | | | |
| Boilers | | | |

## Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Click to enter text.

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☒ Other (e.g., portable toilets), specify and Complete Item 7.b: Domestic sewage is collected from generation points by lift stations and treated in an on-site sanitary wastewater treatment plant. Sewage sludge is hauled offsite with a motorized vehicle by the contractor listed below.

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. |
|---|---|
| K3BMI | 04518 |
| | |

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

## Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

# Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

**Radioactive Materials Mined, Used, Stored, or Processed**

| Radioactive Material Name | Concentration (pCi/L) |
|---|---|
| | |
| | |
| | |
| | |

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

☐ Yes ☒ No

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

**Radioactive Materials Present in the Discharge**

| Radioactive Material Name | Concentration (pCi/L) |
|---|---|
| | |
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| | |
| | |

# Item 12. Cooling Water (Instructions, Page 46)

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

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

Cooling water is obtained from both an on-site well and the City of Sealy

c. Cooling Water Supplier

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

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

| | | | | |
|---|---|---|---|---|
| **CWIS ID** | City Water | Groundwater | | |
| **Owner** | City of Sealy | Hailiang Copper Texas | | |
| **Operator** | City of Sealy | Hailiang Copper Texas | | |

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

   ☒ Yes ☐ No

   If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. City Water – TX0080002, Onsite Groundwater - TX0080030

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

d. 316(b) General Criteria

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

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

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

☐ Track I – AIF greater than 10 MGD

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

☐ Track II

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility

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

☐ Track I – Not a fixed facility

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

☐ Track II – Fixed facility

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

**Attachment:** Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

☒ Yes ☐ No

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

1. Request to add new effluent characteristics to the discharge profile. Effluent characteristics include: Alkaline and acidic wastewater (3 - 11 S.U.), petroleum substances, organic material (COD), suspended solids, hexavalent chromium, phosphorus, chromium, ammonia, copper sulfide, lead, and zinc. This change is the result of the introduction of the new pipe fitting process and associated waste water discharge from the cleaning of products.
2. Increase flow of discharge by approximately .0017 MGD. This change is a result of the introduction of the new pipe fitting process and associated water use for cleaning of products.
3. Request to add new internal outfall. This change is a result of the introduction of the new pipe fitting process and associated water use for cleaning of products.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

## Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

CERTIFICATION:

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

Printed Name: Click to enter text.

Title: Click to enter text.

Signature: _____

Date: _____

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

## Item 1. Categorical Industries (Instructions, Page 53)

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

☒ Yes ☐ No

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

**40 CFR Effluent Guideline**

| Industry | 40 CFR Part |
|---|---|
| Metal Products and Machinery | 438 |
| | |
| | |
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## Item 2. Production/Process Data (Instructions, Page 54)

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

### a. Production Data

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

**Production Data**

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

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

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

**Percentage of Total Production**

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

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

Provide the applicable subcategory and a brief justification.

N/A

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

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

Process wastewater will be generated with the addition of the copper pipe fitting production process. Intermediate products are washed after cutting and before forming (semi-finished product cleaning wastewater). The forming process will use saponification to remove organic chemicals from the copper fittings. After forming and before packaging, the parts are washed again (vibrate-through product cleaning wastewater). The vibrate-through cleaning process will use stainless steel balls. Copper rings specifically will have a third wash associated with an oxidized coating applied to the rings (black-coating cleaning wastewater), this wash utilizes non-metallic abrasive materials, likely pebbles. These wastewater streams will enter the new wastewater treatment plant. At maximum production, after treatment, about 2,011.6 gallons per day or 53% of the wastewater will be recirculated back into the production process for recycling and the remaining amount will be discharged. After treatment, about

1,749.2 gallons per day of wastewater will enter a detention pond for further settling, then will be pumped to the facility's retention pond and ultimately discharge through Outfall 001. Sanitary wastewater is generated on-site by current facility employees (and their guests) as well as lessees (employees, customers and guests). This water is collected in lift stations and transferred to the on-site treatment plant. The wastewater is subjected to physical, chemical, and biological treatment, after which, it is discharged from the facility's retention pond to Outfall 001. Both treated process and sanitary wastewater will be authorized for discharge under this permit.

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

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

**Wastewater Generating Processes Subject to Effluent Guidelines**

| Process | EPA Guideline Part | EPA Guideline Subpart | Date Process/ Construction Commenced |
|---|---|---|---|
| Semi-finished products cleaning | 40 CFR 438 | 1 | TBD |
| Vibrate through cleaning | 40 CFR 438 | 1 | TBD |
| | | | |
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# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

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

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

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 03/06/2024 – 03/27/2024

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

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

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

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment: D – Sampling Guidance**

**TABLE 1 and TABLE 2 (Instructions, Page 58)**

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

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

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | 7.4 | 3.18 | 6.23 | 4.15 |
| CBOD (5-day) | 3.49 | 3.71 | <3.00 | <2.03 |
| Chemical oxygen demand | 23 | <20 | <20 | <20 |
| Total organic carbon | 3.97 | 3.72 | 3.34 | 3.42 |
| Dissolved oxygen | 9.19 | 8.24 | 10.5 | 7.65 |
| Ammonia nitrogen | 0.0575 | 0.0460 | <0.0500 | 0.0620 |
| Total suspended solids | 20.5 | 22.5 | 10.4 | 4.00 |
| Nitrate nitrogen | 0.148 | <0.100 | <.100 | 0.178 |
| Total organic nitrogen | 1.62 | <1.00 | 1.30 | 1.28 |
| Total phosphorus | 0.123 | 0.236 | 0.0875 | 0.0797 |
| Oil and grease | <5.00 | <5.00 | <5.00 | <5.00 |
| Total residual chlorine | <0.25 | <0.25 | <0.25 | <0.25 |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 146 | 120 | 100 | 116 |
| Sulfate | 6.43 | 6.56 | 6.24 | 5.90 |
| Chloride | 5.44 | 6.27 | 5.34 | 5.65 |
| Fluoride | <0.250 | 0.250 | <0.250 | <0.250 |
| Total alkalinity (mg/L as CaCO3) | 48.4 | 48.9 | 47.5 | 50.0 |
| Temperature (˚F) | 70.9 | 72.68 | 69.62 | 70.9 |
| pH (standard units) | 9.37 | 7.97 | 7.64 | 7.41 |

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

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 206 | 112 | 193 | 175 | 2.5 |
| Antimony, total | <1.00 | <1.00 | <1.00 | <1.00 | 5 |
| Arsenic, total | 0.706 | 0.601 | 0.723 | 0.683 | 0.5 |
| Barium, total | 63.9 | 54.6 | 59.6 | 60.8 | 3 |
| Beryllium, total | <0.200 | <0.200 | <0.200 | <0.200 | 0.5 |
| Cadmium, total | <1.00 | <1.00 | <1.00 | <1.00 | 1 |
| Chromium, total | <3.00 | <3.00 | <3.00 | <3.00 | 3 |
| Chromium, hexavalent | <3.00 | 17.7 | 22.2 | <3.00 | 3 |
| Chromium, trivalent | <6.00 | <6.00 | <6.00 | <6.00 | N/A |
| Copper, total | 8.22 | 7.43 | 6.47 | 5.92 | 2 |
| Cyanide, available | <10.0 | <10.0 | <10.0 | <10.0 | 2/10 |
| Lead, total | .806 | <.500 | 0.617 | .508 | 0.5 |
| Mercury, total | .00507 | <0.005 | <0.005 | <0.005 | 0.005/0.0005 |
| Nickel, total | 2.46 | <2.00 | 2.37 | 2.27 | 2 |
| Selenium, total | <5.00 | <5.00 | <5.00 | <5.00 | 5 |
| Silver, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Thallium, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Zinc, total | 18.3 | 14.9 | 17.4 | 17.5 | 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).

Sampling will be complete upon completion of new WWTP

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

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

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | | | | | 10 |
| 2,4-Dimethylphenol | | | | | 10 |
| Di-n-Butyl phthalate | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Fluoride | | | | | 500 |
| Hexachlorobenzene | | | | | 5 |
| Hexachlorobutadiene | | | | | 10 |
| Hexachlorocyclopentadiene | | | | | 10 |
| Hexachloroethane | | | | | 20 |
| Methyl ethyl ketone | | | | | 50 |
| Nitrobenzene | | | | | 10 |
| N-Nitrosodiethylamine | | | | | 20 |
| N-Nitroso-di-n-butylamine | | | | | 20 |
| Nonylphenol | | | | | 333 |
| Pentachlorobenzene | | | | | 20 |
| Pentachlorophenol | | | | | 5 |
| Phenanthrene | | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | | | | | 0.2 |
| Pyridine | | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethene | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| [Trichloroethylene] | | | | | |
| 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)**

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

**c. E. coli (discharge to freshwater)**

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

☒ Yes ☐ No

Domestic wastewater is/will be discharged.

☒ Yes ☐ No

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

**Table 4 for Outfall No.: 001** **Samples are (check one): ☒ Composite ☐ Grab**

| Pollutant | Sample 1 | Sample 2 | Sample 3 | Sample 4 | MAL |
|---|---|---|---|---|---|
| Tributyltin (µg/L) | N/A | N/A | N/A | N/A | 0.010 |
| Enterococci (cfu or MPN/100 mL) | N/A | N/A | N/A | N/A | N/A |
| *E. coli* (cfu or MPN/100 mL) | 5.20 | <1.00 | 5.20 | 15.8 | N/A |

**TABLE 5 (Instructions, Page 59)**

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

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

☒ N/A

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

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

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

**TABLE 6 (Instructions, Page 59)**

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

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

| Pollutants | Believed Present | Believed Absent | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) | MAL (µg/L)* |
|---|---|---|---|---|---|---|---|
| Bromide | ☐ | ☒ | <0.500 | <0.500 | <0.500 | <0.500 | 400 |
| Color (PCU) | ☐ | ☒ | TBD | TBD | TBD | TBD | — |
| Nitrate-Nitrite (as N) | ☒ | ☐ | <0.150 | <0.150 | <0.150 | 0.178 | — |
| Sulfide (as S) | ☒ | ☐ | 0.0566 | <0.0100 | <0.0100 | <0.0100 | — |
| Sulfite (as SO3) | ☒ | ☐ | <5.00 | <5.00 | <5.00 | <5.00 | — |
| Surfactants | ☒ | ☐ | <0.200 | <0.200 | <0.200 | <0.200 | — |
| Boron, total | ☒ | ☐ | 0.0363 | 0.0375 | 0.0367 | 0.0346 | 20 |
| Cobalt, total | ☐ | ☒ | <0.0003 | <0.0003 | <0.0003 | <0.0003 | 0.3 |
| Iron, total | ☒ | ☐ | 1.36 | 1.48 | 0.840 | 0.671 | 7 |
| Magnesium, total | ☒ | ☐ | 1.65 | 1.51 | 1.51 | 1.77 | 20 |
| Manganese, total | ☒ | ☐ | 0.0129 | 0.0130 | 0.0185 | 0.0130 | 0.5 |
| Molybdenum, total | ☐ | ☒ | <0.001 | <0.001 | <0.001 | <0.001 | 1 |
| Tin, total | ☒ | ☐ | 0.0141 | 0.00661 | 0.00642 | <0.005 | 5 |
| Titanium, total | ☐ | ☒ | <0.005 | <0.005 | <0.005 | <0.005 | 30 |

**TABLE 7 (Instructions, Page 60)**

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

☐ N/A

**Table 7 for Applicable Industrial Categories**

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

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| 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 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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.:** Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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.:** Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| Acenaphthene | | | | | 10 |
| Acenaphthylene | | | | | 10 |
| Anthracene | | | | | 10 |
| Benzidine | | | | | 50 |
| Benzo(a)anthracene | | | | | 5 |
| Benzo(a)pyrene | | | | | 5 |
| 3,4-Benzofluoranthene [Benzo(b)fluoranthene] | | | | | 10 |
| Benzo(ghi)perylene | | | | | 20 |
| Benzo(k)fluoranthene | | | | | 5 |
| Bis(2-chloroethoxy)methane | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 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 |
| 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 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| N-Nitrosodi-n-propylamine | | | | | 20 |
| N-Nitrosodiphenylamine | | | | | 20 |
| Phenanthrene | | | | | 10 |
| Pyrene | | | | | 10 |
| 1,2,4-Trichlorobenzene | | | | | 10 |

* Indicate units if different from µg/L.

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

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

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| PCB 1260 | | | | | 0.2 |
| PCB 1016 | | | | | 0.2 |
| Toxaphene | | | | | 0.3 |

* Indicate units if different from µg/L.

**Attachment:** Click to enter text.

**TABLE 12 (DIOXINS/FURAN COMPOUNDS)**

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

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

☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3

☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4

☐ hexachlorophene (HCP) CASRN 70-30-4

☒ None of the above

Description: Click to enter text.

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

☐ Yes ☒ No

Description: Click to enter text.

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

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

| Compound | Toxicity Equivalent Factors | Wastewater Concentration (ppq) | Wastewater Toxicity Equivalents (ppq) | Sludge Concentration (ppt) | Sludge Toxicity Equivalents (ppt) | MAL (ppq) |
|---|---|---|---|---|---|---|
| 2,3,7,8-TCDD | 1 | | | | | 10 |
| 1,2,3,7,8-PeCDD | 1.0 | | | | | 50 |
| 2,3,7,8-HxCDDs | 0.1 | | | | | 50 |
| 1,2,3,4,6,7,8-HpCDD | 0.01 | | | | | 50 |

| Compound | Toxicity Equivalent Factors | Wastewater Concentration (ppq) | Wastewater Toxicity Equivalents (ppq) | Sludge Concentration (ppt) | Sludge Toxicity Equivalents (ppt) | MAL (ppq) |
|---|---|---|---|---|---|---|
| 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, Pages 60-61)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

## Item 3. Classified Segment (Instructions, Page 80)

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

☐ Yes ☒ No

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

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

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

a. Name of the immediate receiving waters: N/A

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:

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: Historical observations

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Little Bernard Creek

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: **Attachment E – Water Body Observations**

Date and time of observation: **August 2013**

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

☐ Yes ☒ No

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

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

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

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☒ other, specify: **Attachment E – Water Body Observations**

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: **Attachment E – Water Body Observations**

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

# ATTACHMENT A
# Facility Map

New WWTP
Outfall 201

Sludge & Copper Dust & Stack Dust

N 45° 00' 00" E

N 45° 00' 50" E

N 46° 01' 32" W

N 49° 30' 22" W

S 46° 01' 39" E

S 46° 01' 39" E

S 27° 08' 32" W

S 27° 23' 21" W

N 78° 17' 49" W

S 44° 27' 42" W

S 44° 21' 47" W

S 44° 23' 49" W

TEST TRACK

BRAKE TEST AREA

DETENTION RESERVOIR

Pump from Detention Reservoir to drainage ditch

Copper Tubing and Pipe Fitting Building

Plant Services Area

Building #8

MAINTENANCE 9# 8,800 SQ FT

Shipping

Building #12

Building #6

Building #7

Building #10

PYKA ROAD ENTRANCE

GUARD

LOCKER ROOM 24 SAFETY

Admin Building #3

Building #11

Parking Lot "A"

HR Building #1

Parking Lot "B"

Parking Lot "D"

Annex Building #4

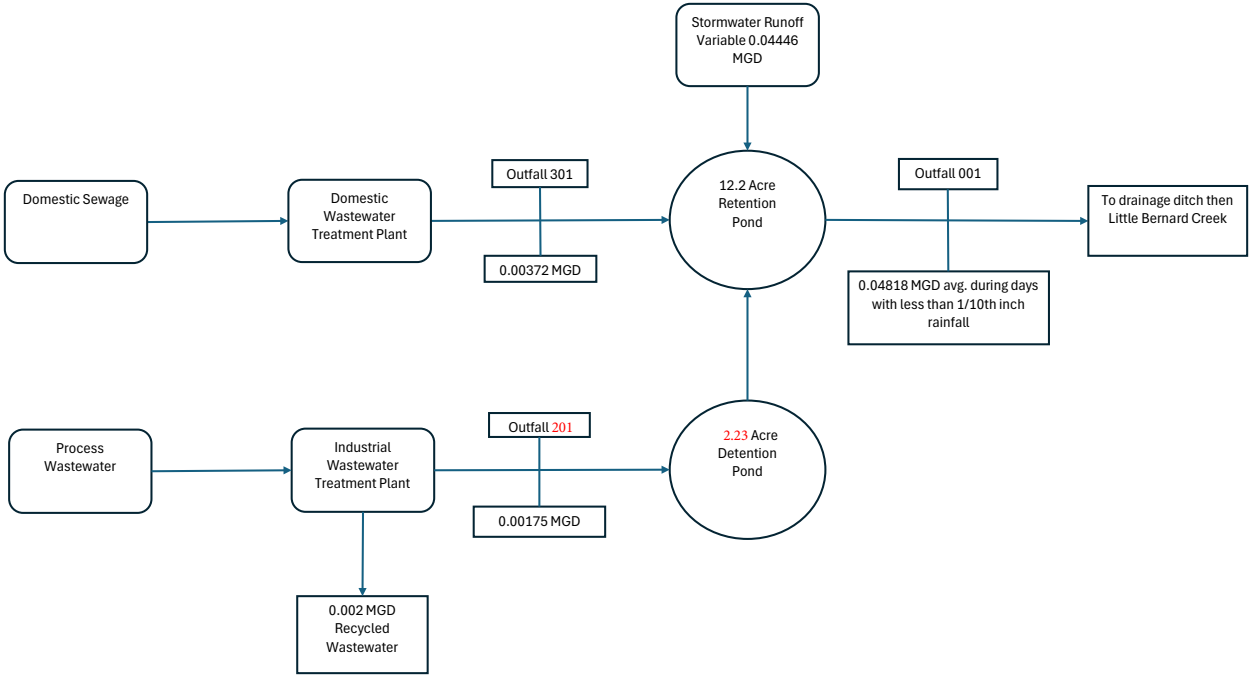
CPC Building #5

Domestic WWTP
Outfall 301

RETENTION RESERVOIR

Outfall 001

# ATTACHMENT B
# Flow Balance Diagram


Stormwater Runoff
Variable 0.04446
MGD
Domestic Sewage
Domestic
Wastewater
Treatment Plant
Outfall 301
0.00372 MGD
12.2 Acre
Retention
Pond
Outfall 001
0.04818 MGD avg. during days
with less than 1/10th inch
rainfall
To drainage ditch then
Little Bernard Creek
Process
Wastewater
Industrial
Wastewater
Treatment Plant
Outfall 201
0.00175 MGD
2.23 Acre
Detention
Pond
0.002 MGD
Recycled
Wastewater

# ATTACHMENT C
## Contract Laboratory Information

| Lab | Analytes | Phone Number |
|---|---|---|
| NWDLS | All pollutants in table 1, 2, 4, & 6 (except surfactants and sulfite) | 936-321-6060 |
| A & B Labs | Sulfite | 713-453-6060 |
| SPL | MBAS (Surfactant/Foaming Agent) | 903-984-0551 |

# ATTACHMENT D
# Sampling Guidance

**From:** Alexander Owens
**To:** Thomas Newhouse; WQ-ARPTeam
**Cc:** Matthew Udenenwu; dennis.zurek; Jonathan Martensen; Lucian Hill
**Subject:** RE: WQ0002462000 Major Amendment - Application Sampling Requirements
**Date:** Thursday, August 1, 2024 9:42:02 AM



Good morning Thomas,

If the makeup of the wastewater will change with the inclusion of process wastewater from the new treatment unit then it would be best to take additional samples that are representative of the discharge. I would say that the approach you mentioned is in line with this practice and should be sufficient. Hope this helps!

Best Wishes,
Alex Owens

---

**From:** Thomas Newhouse <tnewhouse@camstex.com>
**Sent:** Wednesday, July 31, 2024 12:08 PM
**To:** Alexander Owens <Alexander.Owens@tceq.texas.gov>; WQ-ARPTeam <WQ-ARPTeam@tceq.texas.gov>
**Cc:** Matthew Udenenwu <matthew.udenenwu@tceq.texas.gov>; dennis.zurek <Dennis.Zurek@Hailiangusa.com>; Jonathan Martensen <jmartensen@camstex.com>; Lucian Hill <lhill@camstex.com>
**Subject:** WQ0002462000 Major Amendment - Application Sampling Requirements

Hello Alexander,

My name is Thomas Newhouse, I am working on Hailiang's Major Amendment with Renewal (Permit No. WQ0002462000). We had a pre-submittal meeting on Wednesday, June 19th where we discussed the changes being made to the facility and strategy for submittal since there is currently a Renewal without changes application out with TCEQ. After discussing the different scenarios, we determined the best course of action is to keep the Renewal without changes application in place, then once our Major Amendment with Renewal application is complete, we will submit that and withdraw the initial Renewal without changes.

I would like to get confirmation on sampling requirements for the new submittal. On our call, we discussed including the sampling performed for the initial Renewal without changes in the Major Amendment with Renewal, then potentially performing follow up testing once the new wastewater treatment system is installed.

Will this approach be sufficient for the Major Amendment with Renewal application?

Thank you,

Thomas Newhouse
Environmental Associate I
Work: 713.358.9748
Cell: 281.685.3504
tnewhouse@camstex.com

# ATTACHMENT E
## Water Body Observations

**Worksheet 4.0, Description of Immediate Receiving Waters**

Observation of Receiving Waters From 2014 Permit application

4e Outfall 001 discharges into a drainage ditch that parallels the Frontage Road of Interstate 10. Visual observations of the flow in the ditch were made as part of routine environmental inspections. The drainage ditch typically has water in it. The segment of the ditch where Outfall 001 discharges into the ditch is deeper than adjacent segments., and therefore retains water when other segments of the ditch have dried up.

In 2013, the ditch was completely dry for only four days of the year, from August 7 to August 10. These observations were made at 6:00 a.m. each morning. There were 13 consecutive days in August 2013 with no discharge from Outfall 001 before the ditch became completely dry. The previous measurable rainfall was on July 20, 2013, when rainfall totally 1.46 inches. The next measureable rainfall after the ditch dried up occurred on August 11, 2013, when the total rainfall was 0.14 inches.

**Worksheet 4.0, General Characteristics of Water Body**

5a Upstream of Outfall 001, the drainage ditch is influenced by stormwater runoff from Interstate 10 and its frontage road.

5b The water body is used to convey stormwater runoff.