Administrative Package Cover Page

This file contains the following documents:

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

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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.

Inteplast Group Corporation (CN605028836) operates Inteplast Group Facility (RN101514354), a Plastics extrusion facility. The facility is located at 101 Inteplast Blvd, in Lolita, Jackson County, Texas 77971. Inteplast is seeking a renewal with a major amendment for their current TPDES WQ0003477000 permit to allow discharge of process wastewater with a daily average flow of 0.533 MGD from the existing Outfall 001 to Lavaca River and a new Outfall 001B and two existing stormwater Outfalls 002 and 003 to discharge to Cox Creek.

Discharges from the facility are expected to contain oil and grease, biochemical oxygen demand, total suspended solids, total copper, cyanide, zinc and pH based on 40 CFR Part 463, Plastics Molding and Forming Point Source Category. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. The wastewater is a combination of contact cooling water, non-contact cooling water, cooling tower blowdown, reverse osmosis reject and regenerate water, and treated domestic wastewater from internal Outfall 101 are treated by the wastewater treatment system at the

facility which includes a sanitary wastewater treatment plant to treat domestic wastewater, a blowdown water tank, and a copper and zinc removal system that treats all process wastewater before being discharged to Outfall 001. The site also treats raw water received from LNRA through a clarifier, sand filter, R.O. System and cooling towers. Additional information can be found the TR-4 and 5 attachments. Outfalls 002 and 003 are authorized to discharge stormwater runoff, raw water from the fire water systems, air conditioning condensate, potable water, landscape drainage, and facility (building and pavement) washwater.

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.

La Corporación Inteplast Group (CN605028836) opera la Fabrica Inteplast Group (RN101514354), una instalación de extrusión de plástico. La instalación está ubicada en 101 Inteplast Blvd, en la ciudad de Lolita, Condado de Jackson, Texas 77971. Inteplast está buscando la renovación con una enmienda principal de su permiso actual TPDES WQ0003477000 para permitir la descarga de aguas residuales de proceso con un flujo promedio diario de 0.533 MGD desde el actual Desagüe 001 hacia el Río Lavaca, y desde un nuevo Desagüe 001B y dos desagües pluviales existentes, 002 y 003, hacia el Arroyo Cox.

Se espera que las descargas de la instalación contengan aceite y grasa, demanda bioquímica de oxígeno, sólidos suspendidos totales, cobre total, cianuro, zinc y pH según el reglamento 40 CFR Parte 463, Categoría de Fuentes Puntuales de Moldeo y Conformado de Plásticos. Se incluyen otros contaminantes potenciales en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. Las aguas residuales son una combinación de agua de enfriamiento de contacto, agua de enfriamiento sin contacto, purga de torres de enfriamiento, rechazo y regeneración de ósmosis inversa, y aguas residuales domésticas tratadas del Desagüe Interno 001, que. están tratado por el sistema de tratamiento de aguas residuales de la instalación. Este sistema incluye una planta de tratamiento de aguas residuales sanitarias para el tratamiento de aguas domésticas, un tanque de purga y un sistema de eliminación de cobre y zinc que trata todas las aguas residuales de proceso antes de ser descargadas en el Desagüe 001. La instalación también trata el agua cruda recibida de LNRA a través de un clarificador, un filtro de arena, un sistema de ósmosis inversa y torres de enfriamiento. Información adicional se encuentra en los anexos TR-4 y 5. Los Desagües 002 y 003 están autorizados para descargar escorrentía de aguas pluviales, agua cruda de los sistemas de agua contra incendios, condensado de aire acondicionado, agua potable, drenaje de paisajes y agua de lavado de instalaciones (edificios y pavimentos).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0003477000

APPLICATION. Inteplast Group Corporation, P.O. Box 405, Lolita, Texas 77971, which owns a plastic extrusion facility manufacturing plastic film, plastic bags, and plastic corrugated sheets, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0003477000 (EPA I.D. No. TX0108405) to authorize the addition of an alternative discharge route for Outfall 001. The facility is located at 101 Inteplast Boulevard, near the city of Lolita, in Jackson County, Texas 77971. The discharge route is from the plant site via Outfall 001A via pipe to Lavaca River Tidal; via Outfall 001B and 003 via north drainage ditch; via Outfall 002 to south drainage ditch, thence both to Cox Creek, thence to Cox Lake, thence to Cox Creek, thence to Huisache Cove part of Cox Bay. TCEQ received this application on November 4, 2024. The permit application will be available for viewing and copying at Jackson County Clerks Office, Suite 101, 115 West Main Street, Edna, in Jackson 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=-96.553055,28.794444&level=18

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

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

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

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

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

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

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

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

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific 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 Inteplast Group Corporation at the address stated above or by calling Mr. Dan Martino, Vice President, Administration, at 361-874-3144.

Issuance Date: December 3, 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. WQ0003477000

SOLICITUD. Inteplast Group Corporation, P.O. Box 405, Lolita, Texas 77971, propietaria de una planta de extrusión de plástico que fabrica películas de plástico, bolsas de plástico y láminas de plástico corrugado, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) que enmiende del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) el Permiso No. WQ0003477000 (EPA I.D. No. TX0108405) para autorizar la adición de una ruta de descarga alternativa para el emisario 001. La instalación está ubicada en 101 Inteplast Boulevard, cerca de la ciudad de Lolita, en el condado de Jackson, Texas 77971. La ruta de descarga es desde el sitio de la planta a del emisario 001A a través de una tubería hasta Lavaca River Tidal; a través del emisario 001B y 003 a través de la zanja de drenaje norte; a través del emisario 002 hasta la zanja de drenaje sur, de allí ambos a Cox Creek, de allí a Cox Lake, de allí a Cox Creek, de allí a Huisache Cove, parte de Cox Bay. TCEQ recibió esta solicitud el 4 de noviembre de 2024. La solicitud de permiso estará disponible para su visualización y copia en la Oficina del secretario del Condado de Jackson, Suite 101, 115 West Main Street, Edna, en el Condado de Jackson, Texas antes de la fecha en que se publique este aviso en el periódico. La aplicación, incluida cualquier actualización y los avisos asociados están disponibles 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 instalación se proporciona como una cortesía pública, y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.553055,28.794444&level=18

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión**

preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.

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

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

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

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

materiales de calidad del agua que se hayan presentado durante el período de comentarios.

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

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

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

También se puede obtener más información de Inteplast Group Corporation en la dirección indicada anteriormente o llamando al Sr. Dan Martino, vicepresidente de Administración, al 361-874-3144.

Fecha de emisión el 3 de diciembre de 2024

Leah Whallon

From: Shilinga, Cindy <Cindy.Shilinga@wsp.com>
Sent: Thursday, November 21, 2024 3:09 PM
To: Leah Whallon
Cc: Schannen Weinmann / Inteplast Lolita Environmental Specialist; Shilinga, Cindy
Subject: RE: Application to Amend Permit No. WQ0003477000; Inteplast Group Corporation; Inteplast Group Facility
Attachments: 2 - Adjacent Property Map11.21.24.pdf; AR-1B Adjacent Landowner List Labels.docx; Inteplast Industrial Discharge Amendment Spanish NORI.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Leah,

We have addressed the deficiencies listed in the notice dated Nov 14th (see below).

1. Updated Adjacent property map and updated Adjacent Landowner list- attached
2. Reviewed the NORI
3. Translated the NORI into Spanish- attached

If there is anything else, you need please let me know.

Thanks,

Cindy Shilinga
Senior Consultant
Assessment and Permitting

T+ 1 361-484-1675

WSP USA
1501 E Mockingbird Ln Ste 420
Victoria, TX 77904
USA

wsp.com

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Thursday, November 14, 2024 4:38 PM
To: Schannen Weinmann / Inteplast Lolita Environmental Specialist <sweinmann@inteplast.com>
Cc: Shilinga, Cindy <Cindy.Shilinga@wsp.com>
Subject: Application to Amend Permit No. WQ0003477000; Inteplast Group Corporation; Inteplast Group Facility

Good Afternoon,

Please see the attached Notice of Deficiency letter dated November 14, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by November 28, 2024.

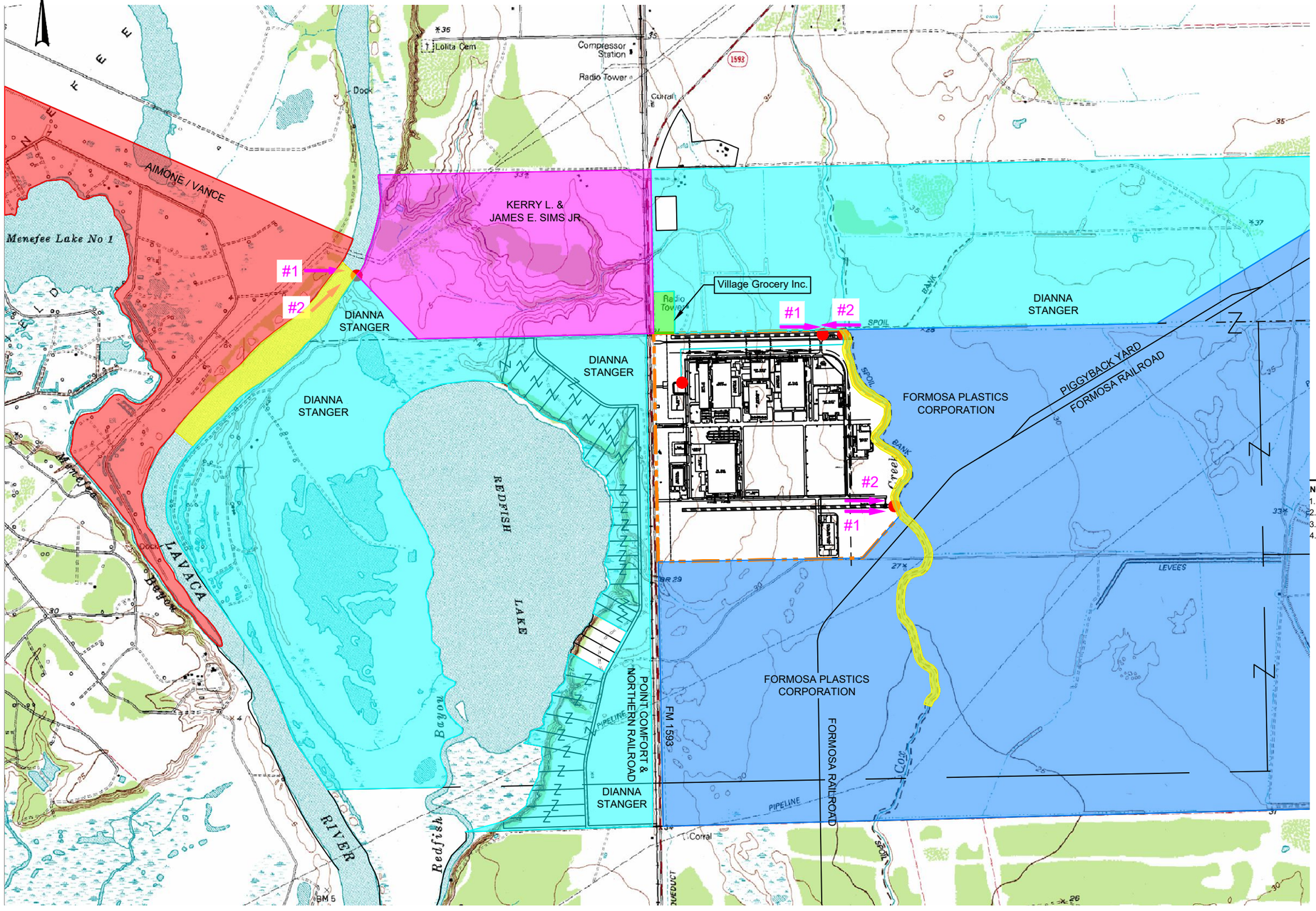
Please let me know if you have any questions.

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

-LAEmHhHzdJzBlTWfa4Hgs7pbKl



LEGEND

- INTEPLAST PROPERTY LINE
- POINT OF DISCHARGE
- APPROX. PROPERTY LINES
- SURVEY LINES
- LOCATION AND CAMERA DIRECTION FOR PHOTOGRAPHS
- NEW WASTEWATER LINE TO 001B
- PROPERTY OWNER "A"
- PROPERTY OWNER "B"
- PROPERTY OWNER "C"
- PROPERTY OWNER "D"
- PROPERTY OWNER "E"
- 1 MILE DOWNSTREAM

NOTE(S)

1. LANDOWNER INFORMATION PER TAX RECORDS JACKSON COUNTY, TEXAS.
2. BASEMAP SOURCE FROM http://www.tnris.state.tx.us Lolita (1995) TEXAS 7.5 MIN. QUADRANGLE.
3. MAP AND ORIGINAL SURVEY PREPARED BY GANEM & KELLY SURVEYING, INC.
4. ORIGINAL PLOT DATE 01-27-09

0 600 1200
1" = 1200' FEET

CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

TITLE
ADJACENT LAND OWNERS

CONSULTANT

YYYY-MM-DD	2024-11-21
DESIGNED	CS
PREPARED	RBR
REVIEWED	CS
APPROVED	CS

PROJECT NO. US0038230.4213 | REV. 0 | FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Path: \\corp.pbwan.net\US\Central\Data\USDAL\400\Texas\Local\Projects - WSP\Interplast\PRODUCTION\ | File Name: 2 - Adjacent Property Map.dwg | Last Edited By: usrr094162 Date: 2024-11-21 Time:10:44:43 AM | Printed By: USRR094162 Date: 2024-11-21 Time:10:45:56 AM

KERRY L. & JAMES E. SIMS, JR. Owner C
17306 E SINGLE ROSE CT.
CYPRESS, TX 77429

VILLAGE GROCERY INC. Owner B
406 MC ALLISTER
SUGAR LAND, TX 77479

DIANNA STRANGER Owner A
ATTN: BRANDON CRITENDON
P.O. BOX 149
PORT LAVACA, TX 77979

NANCY VANCE AIMONE Owner E
203 FAIRWAY
VICTORIA, TX 77904

FORMOSA PLASTICS CORP. - TEXAS Owner D
PO BOX 700
POINT COMFORT, TX 77978

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. Inteplast Group Corporation, P.O. Box 405, Lolita, Texas 77971, propietaria de una planta de extrusión de plástico que fabrica películas de plástico, bolsas de plástico y láminas de plástico corrugado, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) que enmiende del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) el Permiso No. WQ0003477000 (EPA, I.D. No. TX0108405) para autorizar la adición de una ruta de descarga alternativa para el emisario 001. La instalación está ubicada en 101 Inteplast Boulevard, cerca de la ciudad de Lolita, en el condado de Jackson, Texas 77971. La ruta de descarga es desde el sitio de la planta a través del emisario 001 desde el sitio de la planta a través de una tubería de una pulgada a Lavaca River Tidal y a través de los emisarios 002 y 003 hasta Cox Creek, de allí al Lago Cox Creek, de allí a Cox Creek Tidal, de allí a Huisache Cove de Cox Bay (ruta actual-la descripción actualizada de la propuesta 001B está pendiente de revisión por RWA). TCEQ recibió esta solicitud el 4 de noviembre de 2024. La solicitud de permiso estará disponible para su visualización y copia en la Oficina del Secretario del Condado de Jackson, Suite 101, 115 West Main Street, Edna, en el Condado de Jackson, Texas antes de la fecha en que se publique este aviso en el periódico. La aplicación, incluida cualquier actualización y los avisos asociados están disponibles 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 instalación se proporciona como una cortesía pública, y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.553055,28.794444&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 más información de Inteplast Group Corporation en la dirección indicada anteriormente o llamando al Sr. Dan Martino, Vicepresidente de Administración, al 361-874-3144.

Fecha de emisión _____ *[Date notice issued]*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 4, 2024

Re: Confirmation of Submission of the Major Amendment with Renewal for Industrial Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Major Amendment with Renewal for the Industrial Wastewater authorization.

ER Account Number: ER096230
Application Reference Number: 694819
Authorization Number: WQ0003477000
Site Name: Inteplast Group Facility
Regulated Entity: RN101514354 - Inteplast Group
Customer(s): CN605028836 - Inteplast Group Corporation

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0003477000

Site Information (Regulated Entity)

What is the name of the site to be authorized?	INTEPLAST GROUP FACILITY
Does the site have a physical address?	Yes
Physical Address	
Number and Street	101 INTEPLAST BLVD
City	LOLITA
State	TX
ZIP	77971
County	JACKSON
Latitude (N) (##.######)	28.794444
Longitude (W) (-###.######)	-96.553055
Primary SIC Code	3081
Secondary SIC Code	2671,2673,2759
Primary NAICS Code	326113
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN101514354
What is the name of the Regulated Entity (RE)?	INTEPLAST GROUP
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	101 INTEPLAST BLVD
City	LOLITA
State	TX
ZIP	77971
County	JACKSON
Latitude (N) (##.######)	28.8
Longitude (W) (-###.######)	-96.5697
Facility NAICS Code	
What is the primary business of this entity?	INDUSTRIAL

INTEPLA-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN605028836
Type of Customer	Corporation

Full legal name of the applicant:	
Legal Name	INTEPLAST GROUP CORPORATION
Texas SOS Filing Number	802282961
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	786941427
Number of Employees	501+
Independently Owned and Operated?	No
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	INTEPLAST GROUP CORPORATION
Prefix	
First	DAN
Middle	
Last	MARTINO
Suffix	
Credentials	
Title	Vice President, Administration
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
Routing (such as Mail Code, Dept., or Attn:)	
City	LOLITA
State	TX
ZIP	77971
Phone (###-###-####)	3618743144
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	3618743973
E-mail	DMARTINO@INTEPLAST.COM

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN605028836, INTEPLAST GROUP CORPORATION

Organization Name	INTEPLAST GROUP CORPORATION
Prefix	
First	DAN
Middle	
Last	MARTINO
Suffix	
Credentials	
Title	Vice President, Administration
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
Routing (such as Mail Code, Dept., or Attn:)	
City	LOLITA
State	TX
ZIP	77971
Phone (###-###-####)	3618743144
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	3618743973
E-mail	DMARTINO@INTEPLAST.COM

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	INTEPLAST GROUP CORPORATION
Prefix	
First	SCHANNEN
Middle	
Last	WEINMANN
Suffix	
Credentials	
Title	ENVIRONMENTAL SPECIALIST
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
Routing (such as Mail Code, Dept., or Attn:)	
City	LOLITA

State	TX
ZIP	77971
Phone (###-###-####)	3618743284
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	3618743973
E-mail	sweinmann@inteplast.com

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	Application Contact
Organization Name	INTEPLAST GROUP CORPORATION
Prefix	MRS
First	SCHANNEN
Middle	
Last	WEINMANN
Suffix	
Credentials	
Title	ENVIRONMENTAL SPECIALIST
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
Routing (such as Mail Code, Dept., or Attn:)	
City	LOLITA
State	TX
ZIP	77971
Phone (###-###-####)	3618743284
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	3618743973
E-mail	sweinmann@inteplast.com

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Technical Contact
Organization Name	INTEPLAST GROUP CORPORATION
Prefix	MRS

First	SCHANNEN
Middle	
Last	WEINMANN
Suffix	
Credentials	
Title	ENVIRONMENTAL SPECIALIST
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
Routing (such as Mail Code, Dept., or Attn:)	
City	LOLITA
State	TX
ZIP	77971
Phone (###-###-####)	3618743284
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	3618743973
E-mail	sweinmann@inteplast.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application Contact
2) Organization Name	INTEPLAST GROUP CORPORATION
3) Prefix	
4) First	SCHANNEN
5) Middle	
6) Last	WEINMANN
7) Suffix	
8) Credentials	
9) Title	ENVIRONMENTAL SPECIALIST
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	LOLITA
11.4) State	TX

11.5) ZIP	77971
12) Phone (###-###-####)	3618743284
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	sweinmann@inteplast.com

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Billing Contact
2) Organization Name	INTEPLAST GROUP CORPORATION
3) Prefix	
4) First	DAN
5) Middle	
6) Last	MARTINO
7) Suffix	
8) Credentials	
9) Title	Vice President, Administration

Mailing Address

10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 405
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	LOLITA
11.4) State	TX
11.5) ZIP	77971
12) Phone (###-###-####)	3618743144
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	dmartino@inteplast.com

Owner Information

Owner of Treatment Facility

1) Prefix	
2) First and Last Name	
3) Organization Name	INTEPLAST GROUP CORPORATION

4) Mailing Address	101 Inteplast Blvd PO BOX 405
5) City	LOLITA
6) State	TX
7) Zip Code	77971
8) Phone (###-###-####)	3618743144
9) Extension	
10) Email	dmartino@inteplast.com
11) What is ownership of the treatment facility?	Private
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	INTEPLAST GROUP CORPORATION
15) Mailing Address	101 Inteplast Blvd PO BOX 405
16) City	LOLITA
17) State	TX
18) Zip Code	77971
19) Phone (###-###-####)	3618743144
20) Extension	
21) Email	dmartino@inteplast.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	05/04/2025
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Major Amendment with Renewal
4.1) Describe the proposed changes:	An amendment is being requested for the Outfall 001 discharge to have an alternative discharge route. The current outfall will be 001A and the new outfall will be 001B. The discharges primary route will be to the new Outfall 001B located East of the 003 Outfall into the drainage ditch that runs along the Northside of the property prior to leaving the site and flowing offsite to Cox Creek. The existing Outfall 001A discharge to the Lavaca River will become a backup discharge point once the primary discharge to Outfall 001B is in place.

	With this approach, we will continue to measure flow and conduct sampling for the wastewater discharges at the same point currently utilized regardless of which eventual discharge point is used. The site is in the design stages of a future reuse project with the goal to reduce discharges.
5) Current Authorization type:	Industrial Wastewater
5.1) What is your EPA facility classification?	Minor
5.1.1) Are the discharges at your facility subjected to federal effluent limitation guidelines (ELG) 40 CFR Part 400-471?	Yes
5.1.1.1) Select the applicable fee for the Minor facility that is subjected to 40 CFR 400-471:	Major Amendment - $1,250
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0108405
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	LOLITA
6.5) County where the outfalls are located:	JACKSON
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Schannen Weinmann
3) Credential	
4) Title	Environmental Specialist
5) Organization Name	Inteplast Group Corporation
6) Mailing Address	PO BOX 405
7) Address Line 2	
8) City	LOLITA
9) State	TX
10) Zip Code	77971
11) Phone (###-###-####)	3618743284
12) Extension	

13) Fax (###-###-####)	
14) Email	sweinmann@inteplast.com
Contact person to be listed in the Notices	
15) Prefix	
16) First and Last Name	Dan Martino
17) Credential	
18) Title	Vice President, Administration
19) Organization Name	Inteplast Group Corporation
20) Phone (###-###-####)	3618743144
21) Fax (###-###-####)	
22) Email	dmartino@inteplast.com
Bilingual Notice Requirements	
23) 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
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) 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)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	JACKSON
2) Public building name	Jackson County Courthouse
3) Location within the building	County Clerks Office
4) Physical Address of Building	115 W. Main St, Suite 101
5) City	Edna
6) Contact Name	
7) Phone (###-###-####)	3617823812
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_TR-17 Inteplast Plain Lang Summary.pdf

Hash	F15F25BD536FF10BCBED2C795F904195996343D04C2C0BC62ED4B24E60857322
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_AR-3 SPIF Inteplast.pdf
Hash	F974E8E0F4C3049B748A83A6B8F0045D7CDBDD9E9BC45BEBCF2E6172AE96925F
MIME-Type	application/pdf

Industrial Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.

[File Properties]

File Name	MAP_AR-1 Adjacent Landowners & 3 Mile Radius Map (1).pdf
Hash	653510D80E4E15D354F5D1F34026D9AC96B876DAF6D54E91610EE55531064A0C
MIME-Type	application/pdf

2) Public Involvement Plan (TCEQ Form 20960)

[File Properties]

File Name	PIP_TR-13 Inteplast PIP.pdf
Hash	49BF1F91D058FC9C535352DA2A1E1895F9698494EA8A55B6A86FEFFB467DCD78
MIME-Type	application/pdf

3) Administrative Report 1.1

[File Properties]

File Name	ARPT_Inteplast Industrial Administrative Report Application.pdf
Hash	56D416996144C6055E91531CC5715E62D7DA43159633232D2DAEA87C14A5AD05
MIME-Type	application/pdf

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
4.1) I confirm that Worksheet 1.0 (EPA Categorical Effluent Guidelines) is complete and included in the Technical Attachment.	Yes
4.2) I confirm that Worksheet 2.0 (Pollutant Analyses Requirements) is complete and included in the Technical Attachment.	Yes
4.3) I confirm that Worksheet 4.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes

4.4) Are you planning to include Worksheet 4.1 (Waterbody Physical Characteristics) in the Technical Attachment?	Yes
4.5) Are you planning to include Worksheet 6.0 (Industrial Waste Contribution) in the Technical Attachment?	No
4.6) Are you planning to include Worksheet 7.0 (Stormwater Discharges Associated with Industrial Activities) to the Technical Attachment?	Yes
4.7) Are you planning to include Worksheet 8.0 (Aquaculture) in the Technical Attachment?	No
4.8) Are you planning to include Worksheet 9.0 (Class V Injection Well Inventory/Authorization) in the Technical Attachment?	No
4.9) Are you planning to include Worksheet 10.0 (Quarries in the John Graves Scenic Riverway) in the Technical Attachment?	No
4.10) Are you planning to include Worksheet 11.0 (Cooling Water System Information) in the Technical Attachment?	No
4.11) Are you planning to include Worksheet 11.1 (Impingement Mortality) in the Technical Attachment?	No
4.12) Are you planning to include Worksheet 11.2 (Source Water Biological Data) in the Technical Attachment?	No
4.13) Are you planning to include Worksheet 11.3 (Entrainment) in the Technical Attachment?	No

4.14) Technical Attachment

[File Properties]

File Name	TECH_Inteplast TCEQ Industrial WW Permit App Tech Report.pdf
Hash	4AF35D48F73C0F682734A60C410D759B81BBD9E5A17F57D77F24E921AE260432
MIME-Type	application/pdf

5) Affected Landowners Map

[File Properties]

File Name	LANDMP_AR-1 Adjacent Landowners & 3 Mile Radius Map.pdf
Hash	653510D80E4E15D354F5D1F34026D9AC96B876DAF6D54E91610EE55531064A0C
MIME-Type	application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name	LANDCRL_AR-1B Adjacent Landowner List Labels.pdf
Hash	AD3543AD52F1F314FCF2CE8D7E85A35D1112C3A0CA032245E8EBB9F117BCC9E6
MIME-Type	application/pdf

7) Landowner Avery Template

[File Properties]

File Name	LANDAT_AR-1B Adjacent Landowner List Labels.pdf
Hash	AD3543AD52F1F314FCF2CE8D7E85A35D1112C3A0CA032245E8EBB9F117BCC9E6
MIME-Type	application/pdf

8) Flow Diagram

[File Properties]

File Name	FLDIA_TR-5 Flow Schematic.pdf
Hash	CEAE0261D23B70EAE703E642847E0C991E97CCDB3E7475B47FDB746B2D5A43BD
MIME-Type	application/pdf

9) Site Drawing

[File Properties]

File Name	SITEDR_AR-2 Inteplast Site Map with drainage.pdf
Hash	8ED56C58FDC95ABD7B13FCA26541B64ED494F96A3BFDE4C4D6954C1B2BFD6A4E
MIME-Type	application/pdf

10) Original Photographs

[File Properties]

File Name	ORIGPH_TR-15 Outfall Pictures.pdf
Hash	1B90E62F64E9AE8815CEC4AC670AE432B75D2FB868071E94893AAB4AF77BECFE
MIME-Type	application/pdf

11) Design Calculations

[File Properties]

File Name	DES_CAL_TR-11 002 and 003 Max Flow Calculation Formula.pdf
Hash	038D4C6C1CA78B748071D5F07285E41DFEAD3F4D21ECB6A55DEC3183B9169C8F
MIME-Type	application/pdf

12) Solids Management Plan

13) Water Balance

[File Properties]

File Name	WB_TR-5 Flow Schematic (1).pdf
Hash	CEAE0261D23B70EAE703E642847E0C991E97CCDB3E7475B47FDB746B2D5A43BD
MIME-Type	application/pdf

14) Other Attachments

[File Properties]

File Name	OTHER_Inteplast TPDES Permit Renewal Cover Letter.pdf
Hash	6068A7BF7FC7B66A3EDA83F0F69AE9A57958E8814BD875B616076AF54F7C3846

MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_TR-6 SDS.pdf
Hash	44B85721BF0567F1286658AE4C5264BEC6C0C66287C497C5FCFC1F9A5895A810
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Tr-3 Worksheet 4 Drainage Ditch.pdf
Hash	A351449D769170D49F37282B2BF7DE58428325ACC3D00FB82ECAB32E9C8E5408
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_AR-4 Wastewater Easement.pdf
Hash	2CA99E8BC9FED726DFD0EDFC3C7D1506AACD106897383115537A63FC6F339BF3
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_TR-10-TPDES Permit Renewal Fee Receipt.pdf
Hash	BFE6356A536AEE7F5FAA3054CFF8940E518BD6C5C4781554C201847AB73F7983
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_TR-12-Inteplast Core Data Form.pdf
Hash	ABCB27FF9FEDD307D3884851D3B2ADA8B13345540B1FC0E643D6F9FC77DC9935
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_TR-16 Contract Lab Info.pdf
Hash	6E1F43A34986DE37E87245D958BB4E5EF6A1394C47871386E554E7E11C1B9559
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Tr-8 Tech 1.0 Item 4 002 003 Flow.pdf
Hash	E73BB977D98828156FA33B643F1FD228C5AFA4A31664BA4030C60D3259FDBC35
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_AR-2 Inteplast Site Map with drainage (1).pdf
Hash	8ED56C58FDC95ABD7B13FCA26541B64ED494F96A3BFDE4C4D6954C1B2BFD6A4E
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_TR-14 TR-9 TR-7 TR-2 TR-1 AR-3.pdf
Hash	17E8FAB05A97854404C80E699B1CB0D01FFE8CA6ABC283F476FEE94E5F5B22B5
MIME-Type	application/pdf

Certification

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

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

1. I am Dan Martino, the owner of the STEERS account ER096230.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0003477000.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Dan Martino OWNER	
Customer Number:	CN605028836
Legal Name:	INTEPLAST GROUP CORPORATION
Account Number:	ER096230
Signature IP Address:	208.101.238.152
Signature Date:	2024-11-04
Signature Hash:	17A8A6CFD9234980D911C64F66A9C63EEABA9280C4DEB7C438F67AA47D8EAD8D
Form Hash Code at time of Signature:	244BD7CCAAF51A113D9A8065D7B6FCD68EE0A9DEE1481530E81239ABDD5F2068

Fee Payment

Transaction by:	The application fee payment transaction was made by ER096230/Dan Martino

Paid by:	The application fee was paid by DAN MARTINO
Fee Amount:	$1200.00
Paid Date:	The application fee was paid on 2024-11-04
Transaction/Voucher number:	The transaction number is 582EA000632541 and the voucher number is 729059

Submission

Reference Number:	The application reference number is 694819
Submitted by:	The application was submitted by ER096230/ Dan Martino
Submitted Timestamp:	The application was submitted on 2024-11-04 at 08:50:14 CST
Submitted From:	The application was submitted from IP address 208.101.238.152
Confirmation Number:	The confirmation number is 576645
Steers Version:	The STEERS version is 6.82
Permit Number:	The permit number is WQ0003477000

Additional Information

Application Creator: This account was created by Izabella Kaufman

November 1, 2024

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

Subject: Texas Pollutant Discharge Elimination System Application for Renewal with Major Amendment

Permit No.: WQ0003477000
Inteplast Group Corporation Lolita, TX Facility
Customer No.: CN605028836
Regulated Entity No.: RN101514354

Dear Sir/Madam:

On behalf of Inteplast Group Corporation (Inteplast), WSP, USA (WSP) is submitting the application for renewal and major amendment of the Texas Pollutant Discharge Elimination System (TPDES) permit for the Inteplast Group Facility located in Lolita, Texas via State of Texas Environmental Electronic Reporting System (STEER). The current TPDES permit expires on 05/4/2025.

An amendment is being requested for the Outfall 001 discharge to have an alternative discharge route. The current outfall will be 001A and the new outfall will be 001B. The discharge's primary route will be to the new Outfall 001B which will be located just to the East of the existing Outfall 003 and flow into the drainage ditch that runs along the North side of the Inteplast property prior to leaving the site and flowing offsite into Cox Creek. The existing Outfall 001A discharge to the Lavaca River will become a backup discharge point once the primary discharge to Outfall 001B is in place. With this approach, we will continue to measure flow and conduct sampling for the wastewater discharges at the same point currently utilized regardless of which eventual discharge point is used. The site is in the design stages of a future reuse project with the goal to reduce discharges. See Attachment TR-9 for more information.

The application for renewal is being submitted with incomplete sampling results. Due to the lack of rainfall the past few months, Inteplast has not been able to collect all required rounds of sampling for stormwater for Outfalls 002 and 003. Those samples will be collected as soon as rainfall events producing runoff occur and results will be submitted to the TCEQ. Two additional rounds of sampling for limited parameters for wastewater also need to be completed. The remaining sample results will be submitted separately when testing has been completed.

The renewal application fee of $1,250.00 has been paid thru e-Pay and a copy of the voucher is included as Attachment TR-2 of the application. If you have any questions concerning this submittal, please contact Schannen Weinmann of Inteplast at (361) 874-3284 or Cindy Shilinga of WSP at (361) 484-1675 at your earliest convenience.

Sincerely,

Stephen Grahmann, PE
Lead Consultant, Environmental Engineer

INTEPLAST GROUP CORPORATION
LOLITA, TX FACILITY
PERMIT # WQ0003477000
NOVEMBER 2024

APPLICATION CONTENTS

Administrative Report 1.0
Administrative Report 1.1
Technical Report 1.0
Worksheet 1.0
Worksheet 2.0
Worksheet 4.0
Worksheet 4.1 (Drainage Ditch to Cox Creek Only))
Worksheet 7.0
Payment Submittal Form (E-pay)
Checklist of Common Deficiencies

ATTACHMENTS

AR- 1 Adjacent Landowners & 3 Mile Radius Map
AR-1B Adjacent Landowners Labels
AR-2 Inteplast Site Map with Drainage
AR-3 Supplemental Permit Information Form (SPIF)
AR-4 Wastewater Easement
TR-1 Wastewater Processes
TR-2 Raw Materials and Products List
TR-3 Worksheet 4 & 4.1 (Drainage Ditch)
TR-4 Treatment Units
TR-5 Flow Schematic
TR-6 SDS
TR-7 Process & Non-Process Flows
TR-8 Tech 1.0 Item 4: 002 & 003 Flow
TR-9 Inteplast Future Reuse Project Concept
TR-10 TPDES Permit Renewal Fee Receipt (E-pay)
TR-11 003 & 003 Max Flow Calculation Formula
TR-12 Core Data Form
TR-13 PIP
TR-14 TCEQ Sampling Delay Email
TR-15 Outfall Pictures
TR-16 Contract Lab Information
TR-17 Plain Language Summary
TR-18 Stormwater Outfall 003 Worksheet 7 Item 5-6 (pending)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Inteplast Group Corporation

PERMIT NUMBER (If new, leave blank): WQ00 03477000

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: Inteplast Group Corporation

Permit No.: WQ0003477000

EPA ID No.: TX0108405

Expiration Date: 05/04/2025

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☒ Active ☐ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☐ New

☐ Renewal with changes ☐ Renewal without changes

☒ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: An amendment is being requested for the Outfall 001 discharge to have an alternative discharge route. The current outfall will be 001A and the new outfall will be 001B. The discharge's primary route will be to the new Outfall 001B located East of the 003 Outfall into the drainage ditch that runs along the Northside of the property prior to leaving the site and flowing offsite to Cox Creek. The existing Outfall 001A discharge to the Lavaca River will become a backup discharge point once the primary discharge to Outfall 001B is in place. With this approach, we will continue to measure flow and conduct sampling for the wastewater discharges at

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

the same point currently utilized regardless of which eventual discharge point is used. The site is in the design stages of a future reuse project with the goal to reduce discharges. See Attachment TR-9 for more information.

For TCEQ Use Only

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: 724753, 724754

Copy of voucher attachment: TR-10

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN605028836

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: Inteplast Group Corporation

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

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

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

Title: Vice President, Administration 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: TR-12

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

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

Title: Environmental Specialist Credential: Click to enter text.

Organization Name: Inteplast Group Corporation

Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971

Phone No: 361-874-3284 Email: sweinmann@inteplast.com

b. ☒ Administrative Contact ☒ Technical Contact

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

Title: Consultant Credential: Click to enter text.

Organization Name: WSP, USA

Mailing Address: 1501 E. Mockingbird Ln Ste 420 City/State/Zip: Victoria, Tx 77904

Phone No: 361-484-1675 Email: cindy.shilinga@wsp.com

Attachment: N/A

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

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

a. Prefix: Click to enter text. Full Name (Last/First Name): Martino, Dan
Title: Vice President, Administration Credential: Click to enter text.
Organization Name: Inteplast Group Corporation
Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971
Phone No: 361-874-3144 Email: dmartino@inteplast.com

b. Prefix: Click to enter text. Full Name (Last/First Name): Weinmann, Schannen
Title: Environmental Specialist Credential: Click to enter text.
Organization Name: Inteplast Group Corporation
Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971
Phone No: 361-874-3284 Email: sweinmann@inteplast.com

Attachment: N/A

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

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

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

Prefix: Click to enter text. Full Name (Last/First Name): Martino, Dan
Title: Vice President, Administration Credential: Click to enter text.
Organization Name: Inteplast Group Corporation
Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971
Phone No: 361-874-3144 Email: dmartino@inteplast.com

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

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

Prefix: Click to enter text. Full Name (Last/First Name): Weinmann, Schannen
Title: Environmental Specialist Credential: Click to enter text.
Organization Name: Inteplast Group Corporation
Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971
Phone No: 361-874-3284 Email: sweinmann@inteplast.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

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

Title: Environmental Specialist Credential: Click to enter text.

Organization Name: Inteplast Group Corporation

Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971

Phone No: 361-874-3284 Email: sweinmann@inteplast.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: sweinmann@inteplast.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

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

Title: Vice President, Administration Credential: Click to enter text.

Organization Name: Inteplast Group Corporation

Phone No: 361-874-3144 Email: dmartino@inteplast.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: Jackson County Courthouse Location within the building: County Clerk's Office

Physical Address of Building: 115 W. Main St, Suite 101

City: Edna County: Jackson

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: TR-17

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: TR-13

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN101514354

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): Inteplast Group Corporation.

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: Inteplast Group Corporation

Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, TX 77971

Phone No: 361-874-3144 Email: dmartino@ inteplast.com

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

f. Owner of land where treatment facility is or will be: Inteplast Group Corporation

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

or Organization Name: Inteplast Group Corporation

Mailing Address: 101 Inteplast Blvd, PO Box 405 City/State/Zip: Lolita, Tx 77971

Phone No: 361-874-3144 Email: dmartino@inteplast.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: NA

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

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

or Organization Name: Click to enter text.

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

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

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

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

Prefix: Click to enter text. Full Name (Last/First Name): Patrice and Fred Stanford

or Organization Name: Stanford Vacuum Service, INC

Mailing Address: 6910 US Hwy 59 north City/State/Zip: Victoria, Tx, 77905

Phone No: 361-576-0007 Email: : Stanfordvacuum@outlook.com

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

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

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

☐ Yes ☒ No

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

☒ One-mile radius

☒ 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: AR-1

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

☐ Yes ☒ No or New Permit N/A

If no, or a new application, provide an accurate location description: NA

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: NA

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: NA

f. City nearest the outfall(s): Lolita

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

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: NA

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: NA

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

☐ Yes No or New Permit ☒ N/A

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

j. City nearest the disposal site: N/A

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

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

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

Item 12. Miscellaneous Information (Instructions, Page 33)

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

☐ Yes ☒ No

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

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ00003477000

Applicant Name: Inteplast Group Corporation

Certification: I, Dan Martino, 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): Dan Martino

Signatory title: Vice President, Administration

Signature: _____ Date: 10/29/24
(Use blue ink)

Subscribed and Sworn to before me by the said Megan Depine

on this 29th day of October, 2024.

My commission expires on the 28th day of May, 2025.

Megan Depine
Notary Public

MEGAN DEPINE
Notary Public, State of Texas
Comm. Expires 05-28-2025
Notary ID 133129309

[SEAL]

Jackson
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: AR-1

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

☐ Readable/Writeable CD ☐ Four sets of labels

Attachment: AR-1B

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

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

☐ Yes ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: TR-15

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: AR-3

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

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

Transaction Information

Trace Number: 582EA000628580
Date: 10/09/2024 08:55 AM
Payment Method: CC - Authorization 0000222817
ePay Actor: SCHANNEN WEINMANN
Actor Email: sweinmann@inteplast.com
IP: 208.101.238.152
TCEQ Amount: $1,250.00
Texas.gov Price: $1,278.38*

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

Payment Contact Information

Name: SCHANNEN WEINMANN
Company: INTEPLAST GROUP CORPORATION
Address: 101 INTEPLAST BLVD, LOLITA, TX 77971
Phone: 361-874-3284

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
724753	WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		$1,200.00
724754	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$1,250.00

ePay Again Exit ePay

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

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

☐ N/A ☒ Current/Non-Expired, Executed Lease Agreement or Easement Attached AR-4

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

Things to Know:

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

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

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

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

☐ Plain Language Summary

TCEQ

TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

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

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

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 605028836		RN 101514354

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	09/06/2024

☐ 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:*
Inteplast Group Corporation	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0802282961	13839794305	3839794305	079396436

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

12. Number of Employees	13. Independently Owned and Operated?
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher	☒ Yes ☐ No

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

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

15. Mailing Address:								
	101 Inteplast Blvd							
	PO Box 405							
	City	Lolita	State	TX	ZIP	77971	ZIP + 4	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(361) 874-3144	0	(361) 874-3973

SECTION III: Regulated Entity Information

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

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

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

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

Inteplast Group Corporation

23. Street Address of the Regulated Entity: *(No PO Boxes)*	101 Inteplast Blvd							
	City	Lolita	**State**	TX	**ZIP**	77971	**ZIP + 4**	
24. County	Jackson							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	3.5 miles south of Lolita, Texas, along Farm-to-Market Road 1593

26. Nearest City	**State**	**Nearest ZIP Code**
Lolita	TX	77971

27. Latitude (N) In Decimal:	28.794594		**28. Longitude (W) In Decimal:**	96.553058	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
28	47	40.54	96	33	11.01

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)
3081	2671	32611	326112

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

Plastics Molding and Forming

34. Mailing Address:	**101 Inteplast Blvd**							
	PO Box 405							
	City	**Lolita**	**State**	**TX**	**ZIP**	**77971**	**ZIP + 4**	

35. E-Mail Address:	**dmartino@inteplast.com**	
36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(361) 874-3144	**N/A**	**(361) 874-3973**

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
				TX0000895417
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☒ PWS
	142715			1200031
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☒ Other: Ind. & Haz. Waste
	WQ0003477000			SWR# 23687

SECTION IV: Preparer Information

40. Name:	Stephen E. Grahmann	**41. Title:**	Senior Project Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(361) 573-6442		(361) 573-6449	stephen_grahmann@golder.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:	Inteplast Group Corporation	**Job Title:**	Vice President Administration
Name*(In Print)* :	Dan Martino	**Phone:**	(361) 874-3144
Signature:		**Date:**	9/6/2024

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.

Inteplast Group Corporation (CN605028836) operates Inteplast Group Facility (RN101514354), a Plastics extrusion facility. The facility is located at 101 Inteplast Blvd, in Lolita, Jackson County, Texas 77971. Inteplast is seeking a renewal with a major amendment for their current TPDES WQ0003477000 permit to allow discharge of process wastewater with a daily average flow of 0.533 MGD from the existing Outfall 001 to Lavaca River and a new Outfall 001B and two existing stormwater Outfalls 002 and 003 to discharge to Cox Creek.

Discharges from the facility are expected to contain oil and grease, biochemical oxygen demand, total suspended solids, total copper, cyanide, zinc and pH based on 40 CFR Part 463, Plastics Molding and Forming Point Source Category. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. The wastewater is a combination of contact cooling water, non-contact cooling water, cooling tower blowdown, reverse osmosis reject and regenerate water, and treated domestic wastewater from internal Outfall 101 are treated by the wastewater treatment system at the

facility which includes a sanitary wastewater treatment plant to treat domestic wastewater, a blowdown water tank, and a copper and zinc removal system that treats all process wastewater before being discharged to Outfall 001. The site also treats raw water received from LNRA through a clarifier, sand filter, R.O. System and cooling towers. Additional information can be found the TR-4 and 5 attachments. Outfalls 002 and 003 are authorized to discharge stormwater runoff, raw water from the fire water systems, air conditioning condensate, potable water, landscape drainage, and facility (building and pavement) washwater.

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.

La Corporación Inteplast Group (CN605028836) opera la Fabrica Inteplast Group (RN101514354), una instalación de extrusión de plástico. La instalación está ubicada en 101 Inteplast Blvd, en la ciudad de Lolita, Condado de Jackson, Texas 77971. Inteplast está buscando la renovación con una enmienda principal de su permiso actual TPDES WQ0003477000 para permitir la descarga de aguas residuales de proceso con un flujo promedio diario de 0.533 MGD desde el actual Desagüe 001 hacia el Río Lavaca, y desde un nuevo Desagüe 001B y dos desagües pluviales existentes, 002 y 003, hacia el Arroyo Cox.

Se espera que las descargas de la instalación contengan aceite y grasa, demanda bioquímica de oxígeno, sólidos suspendidos totales, cobre total, cianuro, zinc y pH según el reglamento 40 CFR Parte 463, Categoría de Fuentes Puntuales de Moldeo y Conformado de Plásticos. Se incluyen otros contaminantes potenciales en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. Las aguas residuales son una combinación de agua de enfriamiento de contacto, agua de enfriamiento sin contacto, purga de torres de enfriamiento, rechazo y regeneración de ósmosis inversa, y aguas residuales domésticas tratadas del Desagüe Interno 001, que. están tratado por el sistema de tratamiento de aguas residuales de la instalación. Este sistema incluye una planta de tratamiento de aguas residuales sanitarias para el tratamiento de aguas domésticas, un tanque de purga y un sistema de eliminación de cobre y zinc que trata todas las aguas residuales de proceso antes de ser descargadas en el Desagüe 001. La instalación también trata el agua cruda recibida de LNRA a través de un clarificador, un filtro de arena, un sistema de ósmosis inversa y torres de enfriamiento. Información adicional se encuentra en los anexos TR-4 y 5. Los Desagües 002 y 003 están autorizados para descargar escorrentía de aguas pluviales, agua cruda de los sistemas de agua contra incendios, condensado de aire acondicionado, agua potable, drenaje de paisajes y agua de lavado de instalaciones (edificios y pavimentos).

INSTRUCTIONS

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

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

Example

Individual Industrial Wastewater Application

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

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

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

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

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

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.

Major amendment being made that is not considered to have significant public interest and it not witl

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

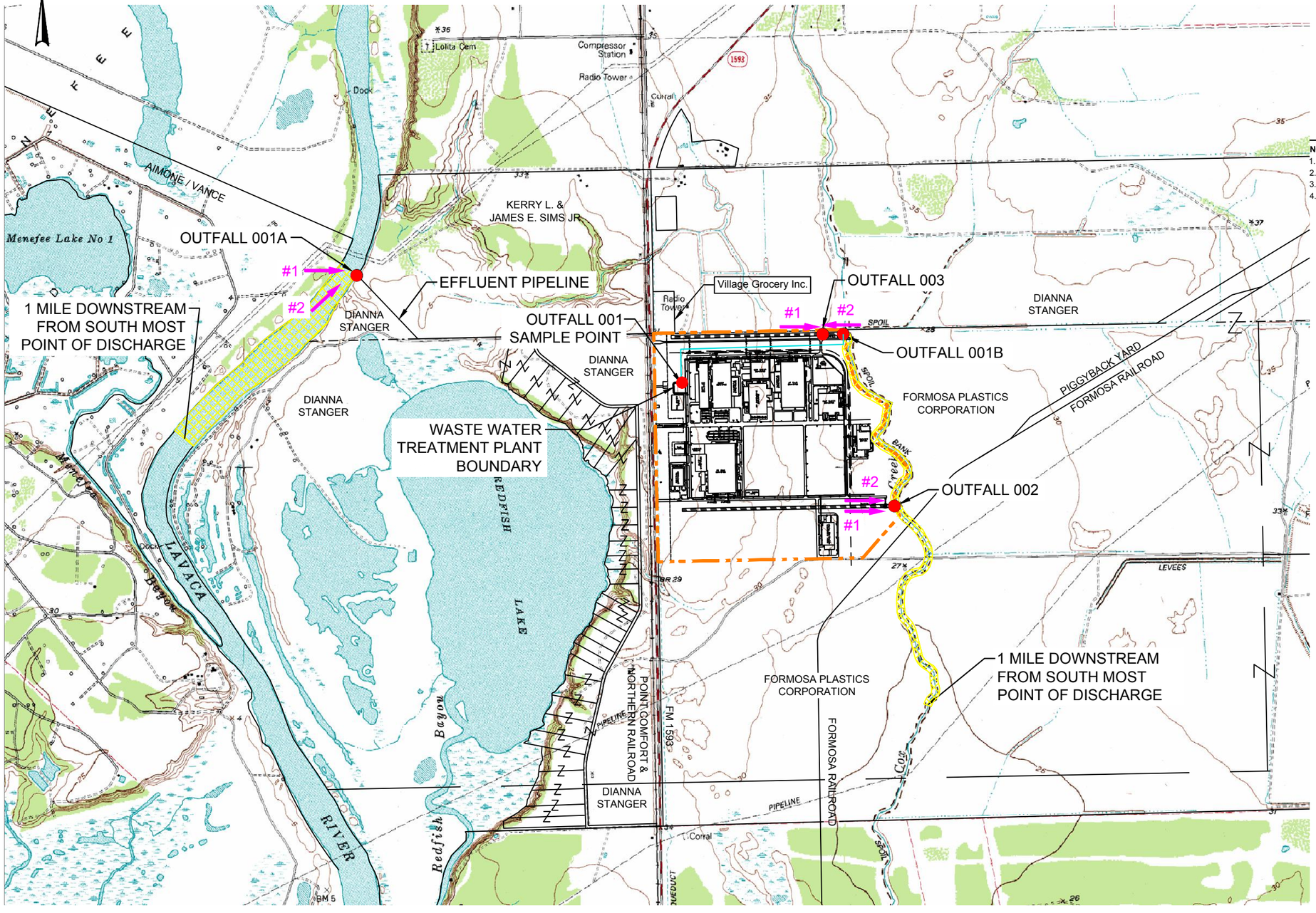
What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)



LEGEND

- INTEPLAST PROPERTY LINE
- POINT OF DISCHARGE
- APPROX. PROPERTY LINES
- SURVEY LINES
- LOCATION AND CAMERA DIRECTION FOR PHOTOGRAPHS
- NEW WASTEWATER LINE TO 001B

NOTE(S)

1. LANDOWNER INFORMATION PER TAX RECORDS JACKSON COUNTY, TEXAS.
2. BASEMAP SOURCE FROM http://www.tnris.state.tx.us Lolita (1995) TEXAS 7.5 MIN. QUADRANGLE.
3. MAP AND ORIGINAL SURVEY PREPARED BY GANEM & KELLY SURVEYING, INC.
4. ORIGINAL PLOT DATE 01-27-09

0 600 1200
1" = 1200' FEET

CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

TITLE
ADJACENT LAND OWNERS

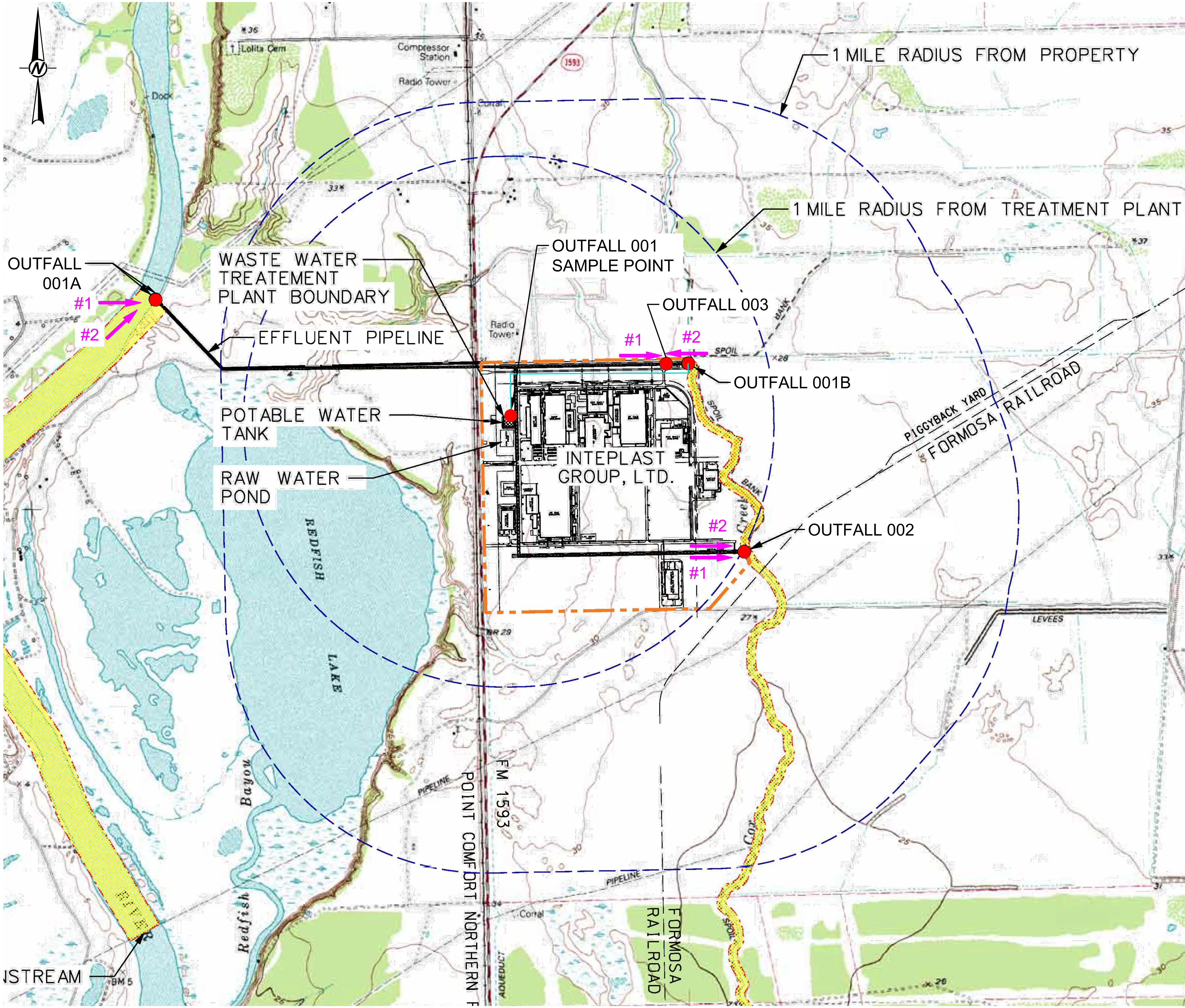
CONSULTANT

YYYY-MM-DD	2024-10-09
DESIGNED	CS
PREPARED	RBR
REVIEWED	CS
APPROVED	CS

PROJECT NO. US0038230.4213 | REV. 0 | FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Path: \\corp.pbwan.net\US\Central\Data\USDAL400\Texarkana\Projects - WSP\Inteplast\PRODUCTION\ | File Name: 2 - Adjacent Property Map.dwg | Last Edited By: user094162 Date: 2024-10-29 Time:3:41:15 PM | Printed By: USRR094162 Date: 2024-10-29 Time:3:41:36 PM



1 MILE RADIUS FROM PROPERTY
1 MILE RADIUS FROM TREATMENT PLANT
OUTFALL 001A
#1
#2
WASTE WATER TREATEMENT PLANT BOUNDARY
OUTFALL 001 SAMPLE POINT
OUTFALL 003
OUTFALL 001B
EFFLUENT PIPELINE
POTABLE WATER TANK
RAW WATER POND
INTEPLAST GROUP, LTD.
OUTFALL 002
PIGGYBACK YARD
FORMOSA RAILROAD
REDFISH LAKE
POINT COMFORT NORTHERN
FM 1593
FORMOSA RAILROAD
Compressor Station
Radio Tower
Lolita Cem
Dock
Corral
SPOIL
BANK
LEVEES
PIPELINE
Cox Creek
Redfish Bayou
RIVER
ISTREAM

LEGEND

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- SURVEY LINES
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1" = 2000' FEET

CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

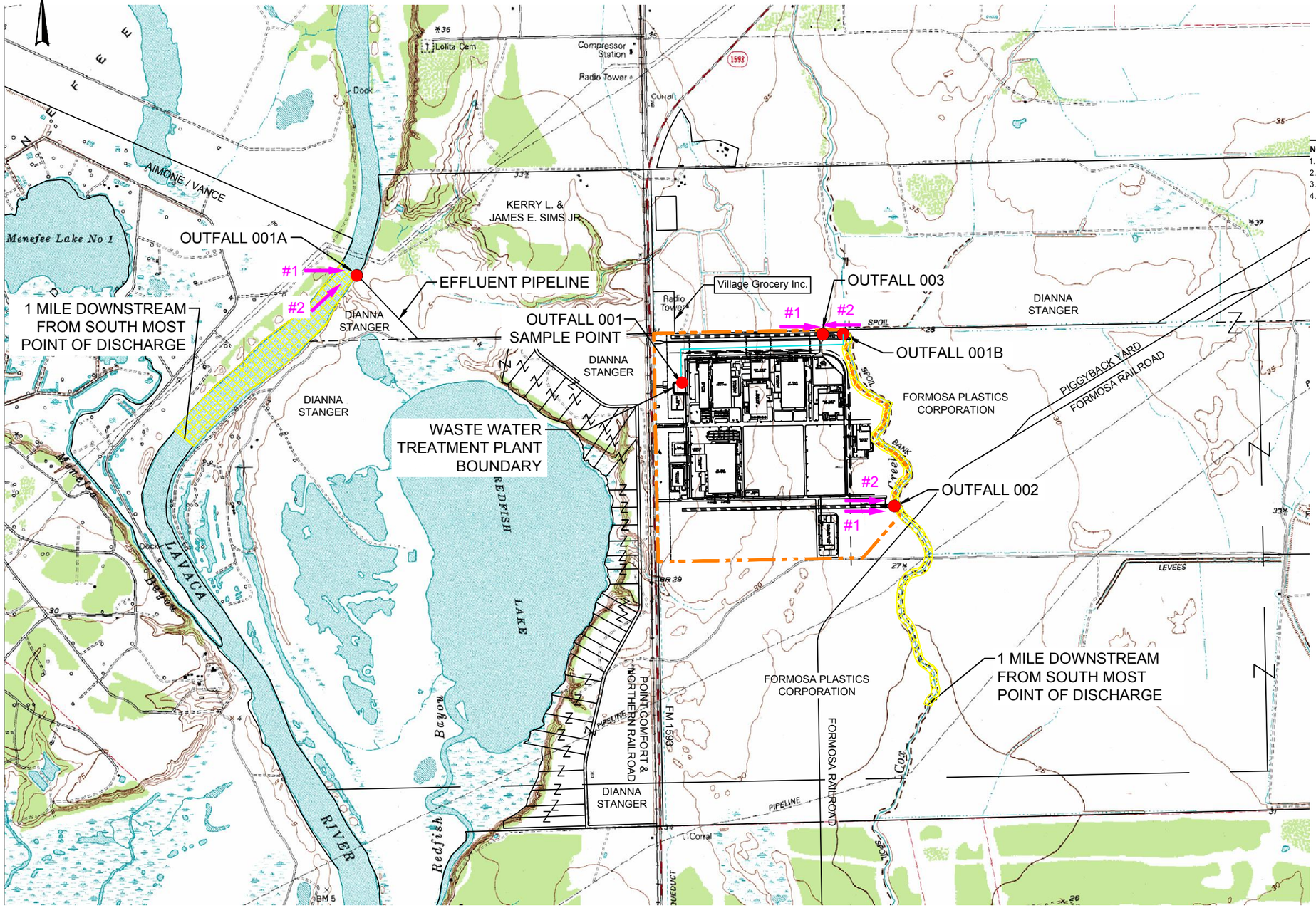
TITLE
3 MILE RADIUS

CONSULTANT
wsp

YYYY-MM-DD	2024-10-29
DESIGNED	CS
PREPARED	RBR
REVIEWED	CS
APPROVED	CS

PROJECT NO. US0038230.4213 REV. 0 FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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- POINT OF DISCHARGE
- APPROX. PROPERTY LINES
- SURVEY LINES
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- NEW WASTEWATER LINE TO 001B

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CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

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CONSULTANT

YYYY-MM-DD	2024-10-09
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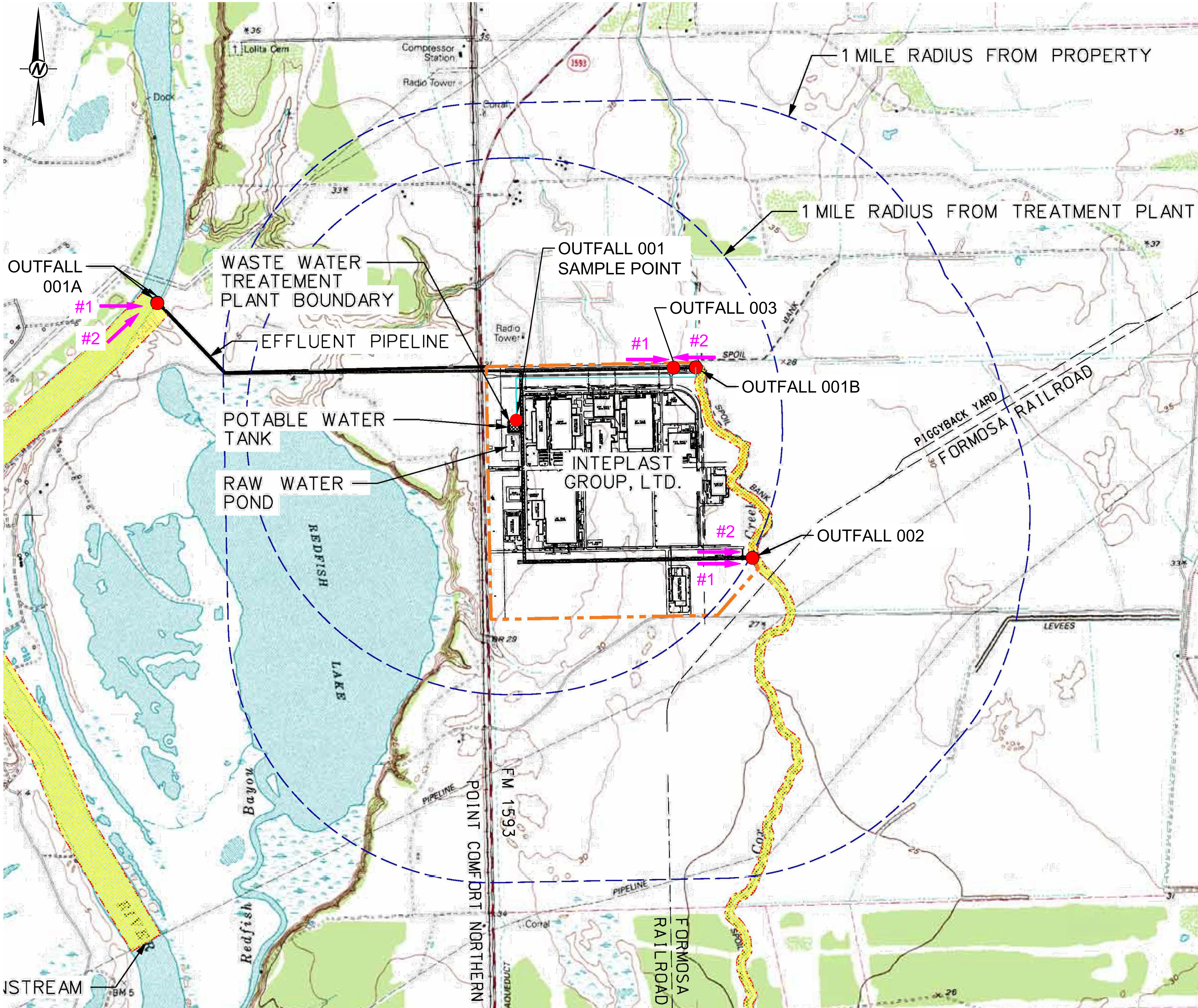
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Compressor Station
Radio Tower
Corral
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LEVEES
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#1
#2
ISTREAM

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PROJECT
TPDES PERMIT RENEWAL

TITLE
3 MILE RADIUS

CONSULTANT
wsp

YYYY-MM-DD	2024-10-29
DESIGNED	CS
PREPARED	RBR
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APPROVED	CS

PROJECT NO. US0038230.4213 | REV. 0 | FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

Kerry L. & James E. Sims, Jr.
17306 E Single Rose Ct.
Cypress, TX 77429

Village Grocery Inc.
406 Mc Allister
Sugar Land, TX 77479

Dianna Stranger
Attn: Brandon Critendon
P.O. Box 149
Port Lavaca, TX 77979

Nancy Vance Aimone
203 Fairway
Victoria, TX 77904

Formosa Plastics Corp. - Texas
PO Box 700
Point Comfort, TX 77978

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Formosa Plastics Corp. - Texas
PO Box 700
Point Comfort, TX 77978

Outfall 001

#1 Upstream of Outfall 001 (facing East) taken on 8/17/24

#2 Downstream of Outfall 001 (facing North East) taken on 8/17/24

Outfall 002

#1 Outfall 002 Down Stream (facing East) taken on 8/16/24

#2 Outfall 002 Down Stream (facing East) taken on 8/16/24

Outfall 003

#1 Outfall 003 Down Stream (facing East) taken on 8/16/24

#2 Outfall 003 Up Stream (facing West) taken on 8/16/24

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: **Inteplast Group Corporation**

   Permit No. WQ00 **03477000** EPA ID No. TX TX0108405

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

   101 Inteplast Blvd, Lolita, TX 77971

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: Dan Martino

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

Title: Vice President, Administration

Mailing Address: 101 Inteplast Blvd, PO Box 405

City, State, Zip Code: Lolita, TX 77971

Phone No.: 361-874-3144 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: dmartino@inteplast.com

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

N/A

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

Outfall 001 process wastewater discharge from the site's wastewater plant through a pipe to the Lavaca River which goes into segment 1601. Outfall 002/003 stormwater discharge and future Outfall 001B process wastewater from the site via open ditch system to Cox Creek which then flows to Cox Lake segment 2454A.

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

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

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

☐ Proposed access roads, utility lines, construction easements

☐ Visual effects that could damage or detract from a historic property's integrity

☐ Vibration effects during construction or as a result of project design

☐ Additional phases of development that are planned for the future

☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

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

Installing approximately less than 1 mile of underground wastewater line buried approximately 4ft in depth. The proposed pipe will run from the current wastewater treatment plant to a drainage ditch located on the North side of the property. Additional past the Outfall 003 structure some upgrades will occur in order to install the new Outfall 001B discharge pipe.

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

N/A

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:

All buildings built in 1992/1993 except for BOPP II-1995.

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

The site was built in 1992 at a greenfield site.

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).

Plastics extrusion facility manufacturing plastic film, plastic bags, plastic sheet and plastic corrugated sheets.

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

See Attachment TR-1.

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

Materials List

Raw Materials	Intermediate Products	Final Products
See Attachment TR-2		

Attachment: TR-2

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

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: AR-2

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 Flood Insurance Rate Map – Panel #48239C 0450D

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: N/A

Attachment: N/A

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

☐ Yes ☒ No ☐ N/A (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.

See Attachment TR-4.

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: TR-5

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)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				

Parameter	Pond #	Pond #	Pond #	Pond #
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: N/A

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: N/A

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

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

Attachment: N/A

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

Attachment: N/A

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

Attachment: N/A

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)
001A	28.8016	96.5752
001B (new)	~28.8069	~96.5527
101	28.8066	96.5525
002	28.7944	96.5475
003	28.8061	96.5436

Outfall Location Description

Outfall No.	Location Description
001A	End of pipeline prior to entering Lavaca River
001B (new)	End of pipeline prior to entering drainage ditch located at NE corner of Applicant's property, after Outfall 003 but prior to discharge into Cox Creek
101	Discharge from treatment plant after chlorination and filtration, prior to commingling with any other waste streams
002	Drainage ditch located at SE corner of Applicant's property, prior to discharge into Cox Creek
003	Drainage ditch located at NE corner of Applicant's property, prior to discharge into Cox Creek

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

Outfall No.	Description of sampling point
001A	Following commingling of all waste streams in the pipeline onsite, prior to discharge into river

Outfall No.	Description of sampling point
001B (new)	Following commingling of all waste streams in the pipeline onsite, prior to discharge into Cox Creek

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)
001A	0.533	0.800	0.533	0.800	
001B (new)			0.533	0.800	Once permitted
101	0.055	N/A	0.055	N/A	
002	Variable	Variable	Variable	Variable	
003	Variable	Variable	Variable	Variable	

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001A	Yes	No	Orifice Plate
001B (new)	Yes	No	Orifice Plate
101	Yes	No	Paddle Sensor
002	No	Yes	Sluice Gates
003	Yes	Yes	Sluice Gates

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)
001A	No	Yes	No	24	30-31	12
001B (new)	No	Yes	No	24	30-31	12
101	No	Yes	No	24	30-31	12
002	Yes	No	No	Variable	Variable	Variable
003	Yes	No	No	Variable	Variable	Variable

Outfall Wastestream Contributions

Outfall No. 001A

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Contact Cooling Water	0.05	13.17
Cooling Tower Blowdown	0.324532	85.50
R.O. Reject and Refrigeration Water	0.009	2.37

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Treated Domestic Wastewater	0.055	14.49

Outfall No. 001B (new)

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Treated Domestic Wastewater	0.055	100
Contact Cooling Water	0.05	13.17
Cooling Tower Blowdown	0.324532	85.50
R.O. Reject and Refrigeration Water	0.009	2.37
Treated Domestic Wastewater	0.055	14.49

Outfall No. 101

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Treated Domestic Wastewater	0.055	100

Attachment: TR-8 for Outfalls 002, 003

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: TR-6

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	4	50,515	128,000
Boilers	0	N/A	N/A

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: The site has a limited amount of stormwater contact to industrial processes, mainly from laydown yards. Production occurs inside or undercover which flows to Outfall 002 and 003.

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
Stanford Vacuum Service, INC. DBA -Victoria Environmental	#2330

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: A wastewater line will be constructed to connect the flow from Outfall 001 process wastewater treatment plant to the new 001B Outfall. See Attachment TR-9 for information on the Future Reuse Project.

Item 9. Toxicity Testing (Instructions, Page 45)

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

☒ Yes ☐ No

If **yes**, identify the tests and describe their purposes: Chronic static renewal 7-day survival and growth test using the Mysid Shrimp (Mysidopsis bahia) (Method 1007.0 or the most recent update therefore). Chronic static renewal 7-day larval survival and growth test using the Inland Silverside (Menidia berylline) (Method 1006.0 or the most recent update thereof). To meet quarterly and semi-annual sampling requirements in the permit.

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: N/a

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: N/A

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

☐ Yes ☐ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

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

☒ Yes ☐ No

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

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

☐ Yes ☒ No

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

c. Cooling Water Supplier

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

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

CWIS ID	East M&I Structure			
Owner	Lavaca-Navidad River Authority			
Operator	Lavaca-Navidad River Authority			

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: 454,100 gpd

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: N/A

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: N/A

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.

An amendment is being requested for the Outfall 001 discharge to have an alternative discharge route. The current outfall will be 001A and the new outfall will be 001B. The discharge's primary route will be to the new Outfall 001B located East of the 003 Outfall into the drainage ditch that runs along the Northside of the property prior to leaving the site and flowing offsite to Cox Creek. The existing Outfall 001A discharge to the Lavaca River will become a backup discharge point once the primary discharge to Outfall 001B is in place. With this approach, we will continue to measure flow and conduct sampling for the wastewater discharges at the same point currently utilized regardless of which eventual discharge point is used. The site is in the design stages of a future reuse project with the goal to reduce discharges. See Attachment TR-9 for more information.

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. 3Is 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: Dan Martino

Title: Vice President, Administration

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
Plastics Molding and Forming	463

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 – limitations are not expressed in terms of production			

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 – limitations are not expressed in terms of production			

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.

See Attachment TR-7

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
Contact Cooling and Heating Water Subcategory	463	A	August 1992

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): 4/2024- in process

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:** TR-16

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:** TR-14

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.: Outfall 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)	1.28	<1.00		
CBOD (5-day)	1	<1.00		
Chemical oxygen demand	86.6	59.9		
Total organic carbon	9.48	10.8		
Dissolved oxygen				
Ammonia nitrogen	0.191	0.0977		
Total suspended solids	<2.50	<2.50		
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus	0.0205	2.01		
Oil and grease	<1.79	<1.43	1.47	.79
Total residual chlorine	.006			

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total dissolved solids	2470	2670		
Sulfate	348	397		
Chloride	1400	1670		
Fluoride	0.74	0.951		
Total alkalinity (mg/L as CaCO3)	34	56		
Temperature (°F)				
pH (standard units)	7.75	7.90	7.73	7.67

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	<0.0592	<0.0592			2.5
Antimony, total	0.00411	<0.00398			5
Arsenic, total	<0.00645	<0.00645			0.5
Barium, total	0.0115	0.0423			3
Beryllium, total	<0.000401	<0.000401			0.5
Cadmium, total	<0.000552	0.000955			1
Chromium, total	<0.00163	<0.00163			3
Chromium, hexavalent	<0.00200	<0.00200			3
Chromium, trivalent	<0.00163	<0.00163			N/A
Copper, total	0	0.0119	.019	.013	2
Cyanide, available	<0.00430	<0.00430	.011	.008	2/10
Lead, total	<0.00227	<0.00227			0.5
Mercury, total	1.58	0.603			0.005/0.0005
Nickel, total	0.00708	0.0081			2
Selenium, total	<0.00616	<0.00616			5
Silver, total	<0.00131	0.00157			0.5
Thallium, total	<0.00460	<0.00460			0.5
Zinc, total	<0.00578	0.0301	.017	.015	5.0

TABLE 3 (Instructions, Page 58)

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

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

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene	<0.0000804	<0.0000804			10
Benzene	<0.0000941	<0.0000941			10
Benzidine	<0.00374	<0.00374			50
Benzo(a)anthracene	<0.000199	<0.000199			5
Benzo(a)pyrene	<0.0000381	<0.0000381			5
Bis(2-chloroethyl)ether	<0.000137	<0.000137			10
Bis(2-ethylhexyl)phthalate		<0.000895			10
Bromodichloromethane [Dichlorobromomethane]	<0.000136	<0.000136			10
Bromoform	<0.000129	<0.000129			10
Carbon tetrachloride	<0.000128	<0.000128			2
Chlorobenzene	<0.000116	<0.000116			10
Chlorodibromomethane [Dibromochloromethane]	<0.000140	<0.000140			10
Chloroform	0.00131	<0.000111			10
Chrysene	<0.000130	<0.000130			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]	<0.000110	<0.000110			10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.000107	<0.000107			10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.000120	<0.000120			10
3,3'-Dichlorobenzidine	<0.000212				5

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,2-Dichloroethane	<0.0000819	<0.0000819			10
1,1-Dichloroethene [1,1-Dichloroethylene]	<0.000188	<0.000188			10
Dichloromethane [Methylene chloride]	<0.000430				20
1,2-Dichloropropane	<0.000149	<0.000149			10
1,3-Dichloropropene [1,3-Dichloropropylene]	<0.000111	<0.000111			10
2,4-Dimethylphenol	<0.0000636	<0.0000636			10
Di-n-Butyl phthalate	<0.000453	0.0500			10
Ethylbenzene	<0.000137	<0.000137			10
Fluoride	0.740	<0.0947			500
Hexachlorobenzene	<0.0000176	<0.0000176			5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene	<0.0000598	<0.0000598			10
Hexachloroethane	<0.000127	<0.000127			20
Methyl ethyl ketone					50
Nitrobenzene	<0.000297	<0.000297			10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol	<0.000313	<0.000313			5
Phenanthrene	<0.000112	0.0500			10
Polychlorinated biphenyls (PCBs) (**)	<0.000173	<0.000173			0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane	<0.000133	<0.000133			10
Tetrachloroethene [Tetrachloroethylene]	<0.000300	<0.000300			10
Toluene	<0.000278	<0.000278			10
1,1,1-Trichloroethane	<0.000149	<0.000149			10
1,1,2-Trichloroethane	<0.000158	<0.000158			10
Trichloroethene	<0.000190	<0.000190			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	<0.000100				50
TTHM (Total trihalomethanes)					10
Vinyl chloride	<0.000234	<0.000234			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)	12.2	2.0			N/A
E. coli (cfu or MPN/100 mL)	1	1			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	☐	☒					400
Color (PCU)	☒	☐					—
Nitrate-Nitrite (as N)	☒	☐					—
Sulfide (as S)	☐	☒					—
Sulfite (as SO3)	☐	☒					—
Surfactants	☒	☐					—
Boron, total	☒	☐					20
Cobalt, total	☒	☐					0.3
Iron, total	☒	☐					7
Magnesium, total	☒	☐					20
Manganese, total	☒	☐					0.5
Molybdenum, total	☒	☐					1
Tin, total	☒	☐					5
Titanium, total	☒	☐					30

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.: 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)
3 NA					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.: N/A **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.: N/A **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.: N/A **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: N/A

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.: N/A **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. **Lavaca River. See Attachment TR-3 for Drainage Ditch**

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: 530 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: Lavaca River

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: Lavaca River (tidal influenced)

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

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

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

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

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

☐ Perennial (normally flowing)

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

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

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

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

☐ Yes ☐ No

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

f. General observations of the water body during normal dry weather conditions: N/A

Date and time of observation: Click to enter text.

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

☐ Yes ☐ No

If **yes**, describe how: N/A

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: Click to enter text.

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

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

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

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

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

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

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

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

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

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

Item 1. Applicability (Instructions, Page 89)

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

☒ Yes ☐ No

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

Item 2. Stormwater Coverage (Instructions, Page 89)

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

Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
002	☐	☒
003	☐	☒

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

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

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

Item 3. Site Map (Instructions, Page 90)

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

- the location of each stormwater outfall to be covered by the permit
- an outline of the drainage area that is within the facility's boundary and that contributes stormwater to each outfall to be covered by the permit

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

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

Attachment: AR-2

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

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

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
002	80 acres	360 acres
003	100 acres	210 acres

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

Wettest month: May 2021

Average rainfall for wettest month (total inches): 13.09

25-year, 24-hour rainfall (inches): 8 in

Source: https://waterdatafortexas.org/lake-evaporation-rainfall

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** No raw materials/chemicals at facility are exposed to precipitation. Some final products are stored outside along with general laydown yards.

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

Attachment: No raw materials/chemicals at facility are exposed to precipitation. Some final products are stored outside along with general laydown yards.

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: No raw materials/chemicals at facility are exposed to precipitation. Some final products are stored outside along with general laydown yards.

Item 5. Pollutant Analysis (Instructions, Page 91)

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): Waiting on a storm to collect the stormwater samples required. Will submit once samples have been collected. See TR-14 for email communicating missing samples.

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

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

Table 14 for Outfall No.: 002. Attachment TR- 18 Outfall 003

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

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

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

Table 15 for Outfall No.: 002 and 003

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled
Cyanide					
BOD 5 day					
E. coli					
Enterococci					

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

Attachment: N/A

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

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

Date of storm event: Click to enter text.

Duration of storm event (minutes): Click to enter text.

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

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

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

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

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

Inteplast Group, Ltd.
Lolita, Texas
TPDES Permit No. 003477
RN101514354
CN602481889

Outfall:	002							
DATE:	**Time**	Water Level before the			Water level after the Gate			
45501	0.34375	6.2						
45501	0.833333333333333	5.6						
45502	0.333333333333333	5						

Sluice Measurements:

Note: Sluice has 4 gates

$w_{\text{sluice gate}}$ =	35	inches	=B16*0.0254	meters
$h_{\text{opening of sluice}}$ =	7	inches	=B17*0.0254	meters
$h_{\text{water surface to bottom of sluice}}$ =	=AVERAGE(C11:E13)*12	inches	=B18*0.0254	meters
c_d =	0.61			
1 m^3/s =	22.824465	MGD		

Flow Calculation:

$q = c_d (h_{\text{opening of sluice}}) (w_{\text{sluice gate}}) [2 (9$

q = =B19*D17*D16*((2*9.81*D18)^(1/; m^3/s

=(B24*B20)	MGD per gate
=B25*4	MGD for 4 gates

Outfall	**003**							
DATE:	**Time**	Water Level before the			Water level after the Gate			
45501	0.350694444444444	4.5						
45501	0.833333333333333	4.2						
45502	0.333333333333333	4						

Sluice Measurements:

Note: Sluice has 4 gates

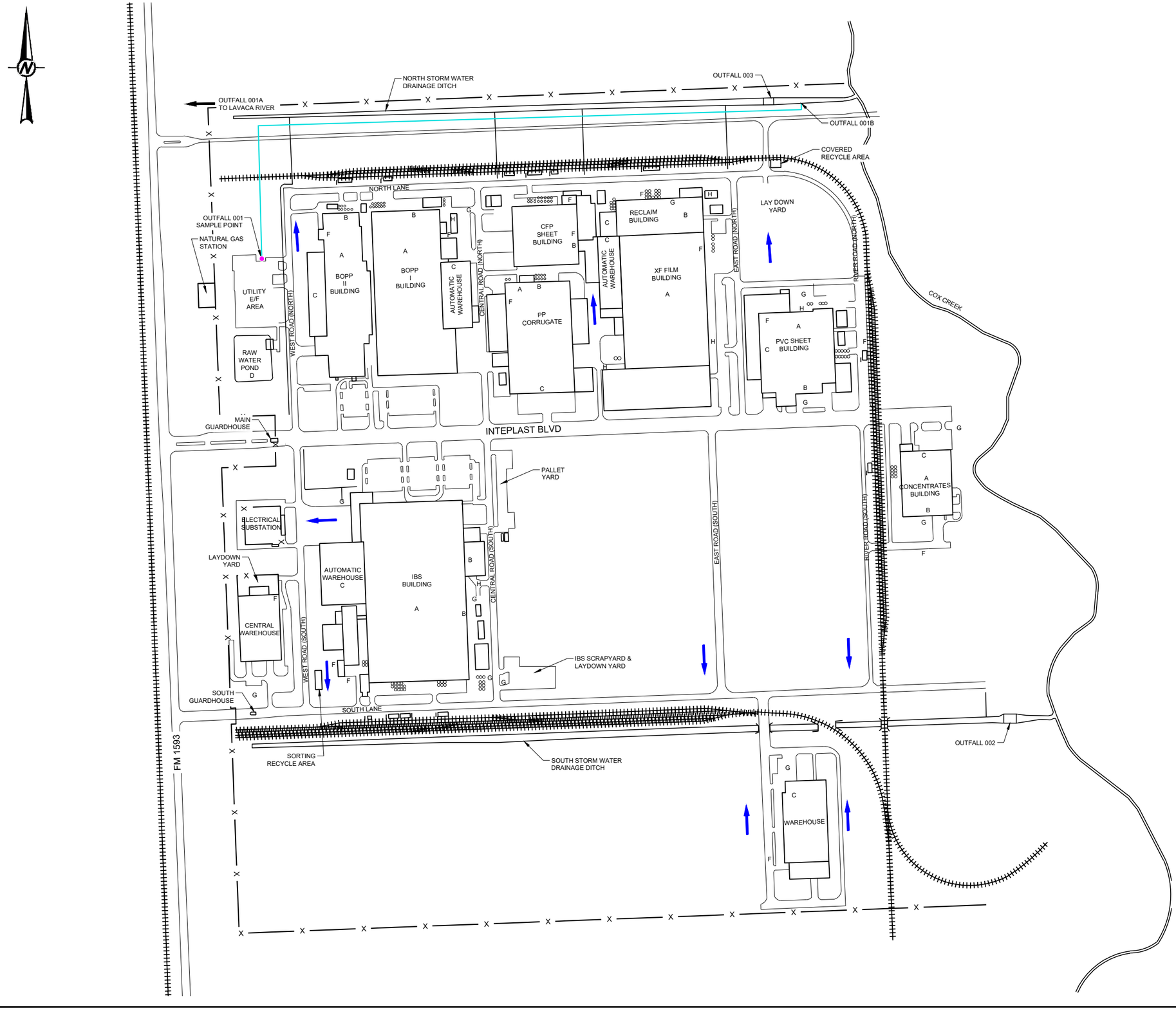
$w_{\text{sluice gate}}$ =	35	inches	=B38*0.0254	meters
$h_{\text{opening of sluice}}$ =	8	inches	=B39*0.0254	meters
$h_{\text{water surface to bottom of sluice}}$ =	=AVERAGE(C33:E35)*12	inches	=B40*0.0254	meters
c_d =	0.61			
1 m^3/s =	22.824465	MGD		

Flow Calculation:

$q = c_d (h_{\text{opening of sluice}}) (w_{\text{sluice gate}}) [2 (9$

q = =B41*D39*D38*((2*9.81*D40)^(1/; m^3/s

=(B46*B42)	MGD per gate
=B47*4	MGD for 4 gates



LEGEND

- RAILROAD
- FENCE
- SURFACE WATER FLOW DIRECTION
- UNDERGROUND PIPING
- SAMPLE POINT

NOTE(S)

A. PRODUCTION AREA
B. MAINTENANCE AREA
C. MATERIALS HANDLING AREA
D. EARTHEN IMPOUNDMENT
E. WASTEWATER TREATMENT FACILITY
F. SOLID WASTE STORAGE AREAS
G. WASTE WATER SUMPS
H. COOLING TOWER
I. RAIL UNLOADING AREA

0 300 600
1" = 600' FEET

CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

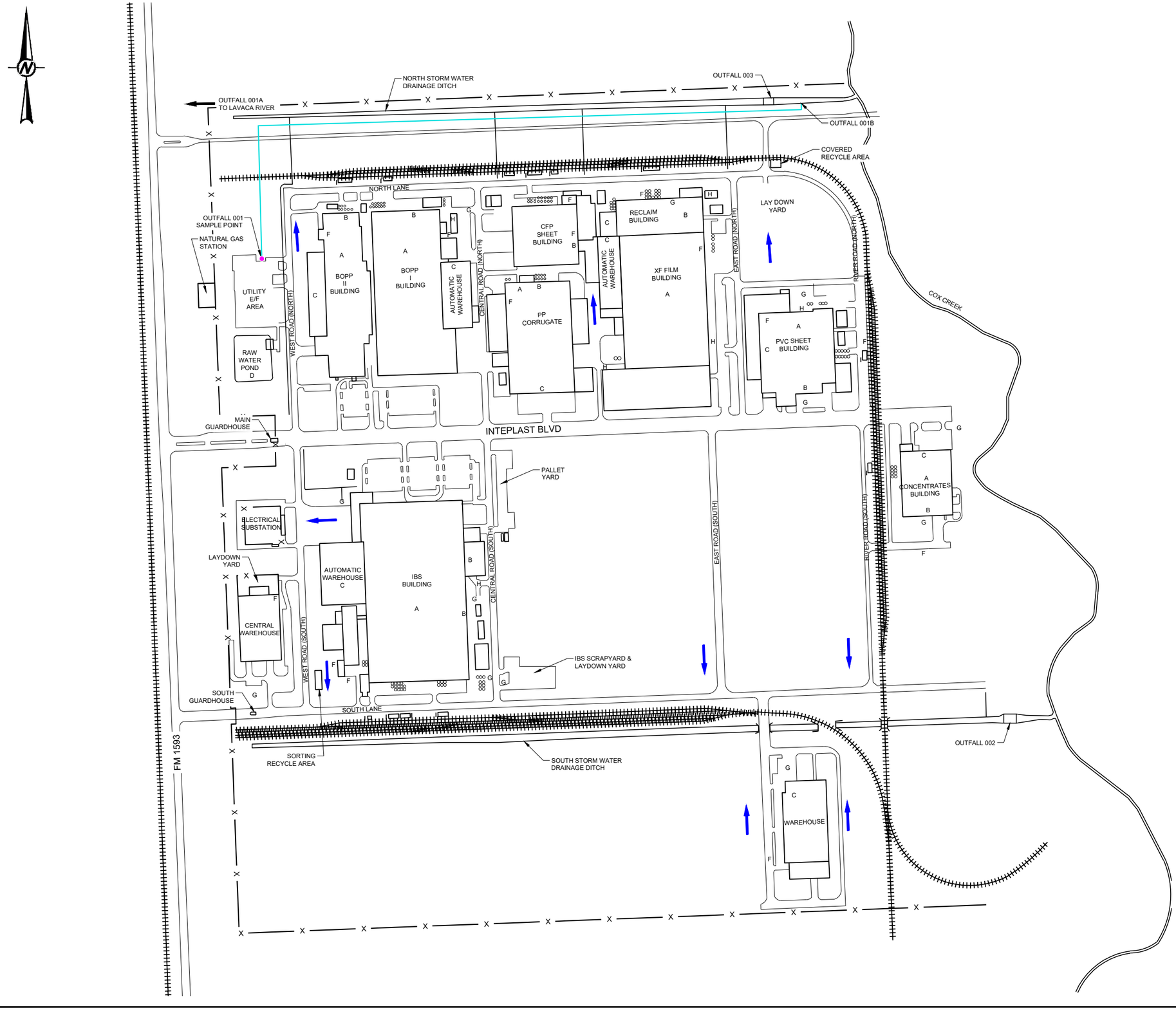
TITLE
FACILITY MAP WITH DRAINAGE

CONSULTANT

YYYY-MM-DD	2024-10-09
DESIGNED	CS
PREPARED	RBR
REVIEWED	CS
APPROVED	CS

PROJECT NO. US0038230.4213 | REV. 0 | FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- RAILROAD
- FENCE
- SURFACE WATER FLOW DIRECTION
- UNDERGROUND PIPING
- SAMPLE POINT

NOTE(S)

A. PRODUCTION AREA
B. MAINTENANCE AREA
C. MATERIALS HANDLING AREA
D. EARTHEN IMPOUNDMENT
E. WASTEWATER TREATMENT FACILITY
F. SOLID WASTE STORAGE AREAS
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0 300 600
1" = 600' FEET

CLIENT
INTEPLAST GROUP

PROJECT
TPDES PERMIT RENEWAL

TITLE
FACILITY MAP WITH DRAINAGE

CONSULTANT

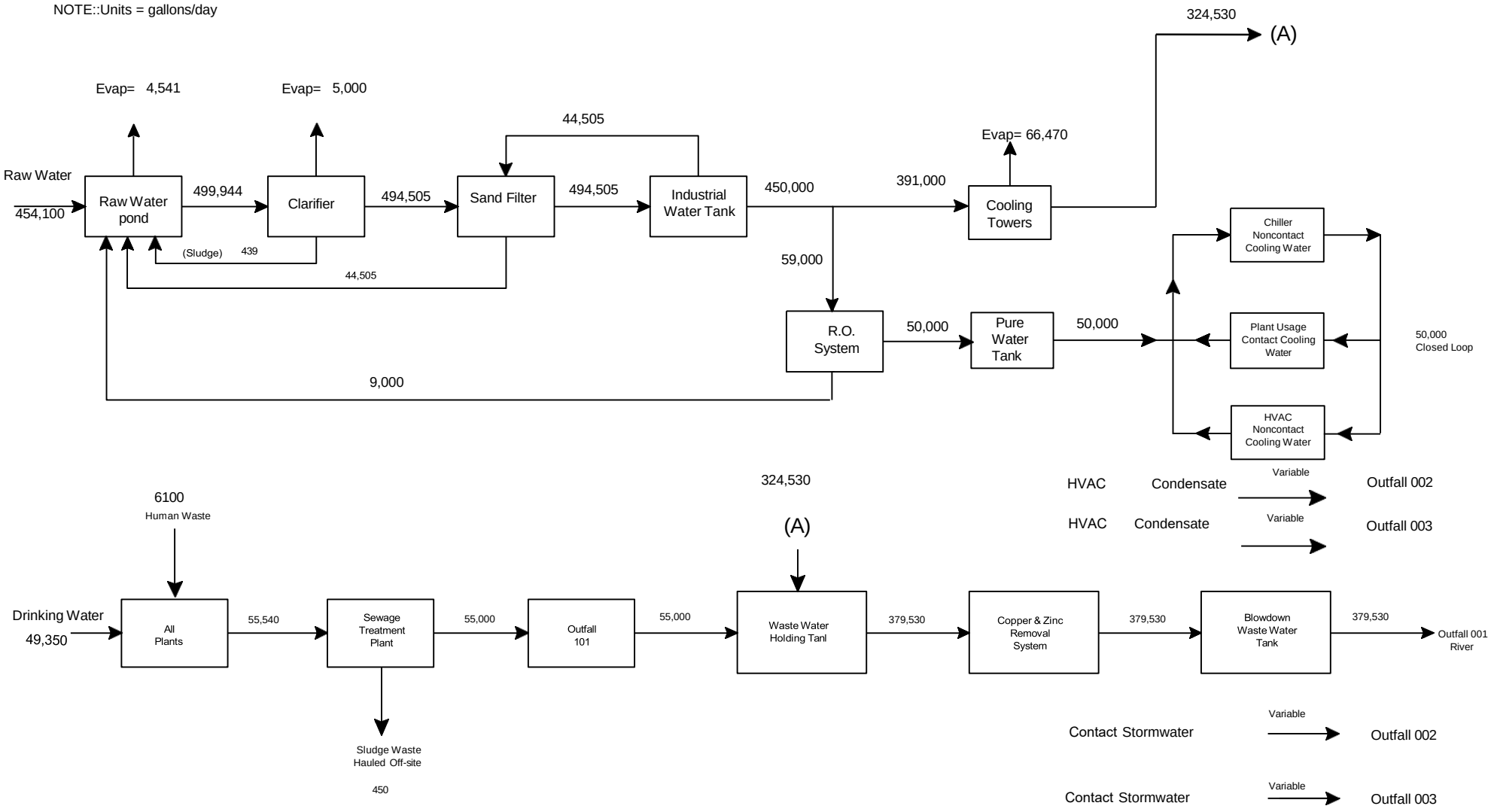
YYYY-MM-DD	2024-10-09
DESIGNED	CS
PREPARED	RBR
REVIEWED	CS
APPROVED	CS

PROJECT NO. US0038230.4213 | REV. 0 | FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

FLOW SCHEMATIC / WATER BALANCE

INTEPLAST GROUP



GRANT OF DISCHARGE WATER LINE EASEMENT

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF JACKSON §

For Ten Dollars ($10.00) in cash and other good and valuable consideration to Grantor in hand paid by Grantee herein, the receipt and sufficiency of which consideration is hereby acknowledged, W.H. BAUER and LOUISE S. BAUER, husband and wife, herein jointly referred to as Grantor, residing in Jackson County, Texas, have, subject to the hereinafter stated reservations, easements, conditions and covenants, GRANTED, SOLD and CONVEYED, and by these presents do GRANT, SELL and CONVEY to FORMOSA PLASTICS CORPORATION TEXAS, a Texas corporation having principal office in Jackson County, Texas, Grantee herein, a permanent easement on and over two parcels of property of Grantor located in Jackson County, Texas, said permanent easement being twenty feet (20') in width, and the center line of which is more particularly described by metes and bounds on Exhibit "A" hereto, together with temporary or working easements, the location and dimensions of which, together with the location and dimensions of the permanent easement, are depicted in detail on Exhibit "A-1" hereto, both of which Exhibits are incorporated herein for all purposes; provided, however, this grant of easements and the warranty of Grantor, each and both, is and are expressly made subject to the following:

1. Use of the easements herein is limited and restricted to the installing in the permanent easement, the

tunneling thereof under State Highway FM 1593, and thereafter the operating, inspecting, repairing, replacing and removing, one (1) pipeline, not to exceed 12 inches in inside (ID) diameter, the use of which pipeline is restricted to the transportation of treated water from Grantee's manufacturing facilities located in Jackson County, Texas, and the subsequent discharge thereof into the Lavaca River, a public river in the State of Texas, at the point depicted on Exhibit "A-1" hereto, which water has been previously used by Grantee in connection with the operation of its manufacturing facilities aforesaid and thereafter treated by Grantee so as to comply at all times with all valid, applicable Federal and State (Texas) laws, all ordinances of other public authority having jurisdiction, and all lawful rules and regulations promulgated by duly constituted public authorities having jurisdiction, pertaining to the qualification of said water for transportation in said pipeline and the discharge thereof into public waters of the State of Texas.

2. If Grantee: (a) makes default in any of its obligations hereunder and, within thirty (30) days following written notice thereof from Grantor, sent by Certified U.S. Mail, return receipt requested, fails to commence, and thereafter prosecute with due diligence, appropriate measures to cure such default, or (b) fails to use the permanent easement for authorized purposes for a period of twenty-four (24) consecutive calendar months following date of completion of installation of the aforesaid pipeline therein, as said period may be extended for such

further periods of time as such use is prevented by Act of God, the weather or force majeure, or (c) abandons said easement, then and in that event all rights and privileges herein granted to Grantee shall forthwith terminate and title to said easement shall thereupon revert to, and revest in, Grantor, their heirs, devisees, representatives and assigns, with such reversion and revesting to be automatic and without the necessity of execution and delivery by Grantee to Grantor of any instrument of reconveyance or release. Upon any such termination, at the option of Grantor to be exercised by written notice from the latter to Grantee within sixty (60) consecutive calendar days following termination, Grantee, at its expense, shall either (a) remove the pipeline from the property of Grantor, restore, and for a period of twelve (12) months thereafter maintain, said property in substantially the condition and to the same elevation as the same was in prior to such removal, or (b) leave the pipeline in place, whereupon the same shall become the property of Grantor. If, after request by Grantor to do so, Grantee fails or refuses to make such removal and property restoration, Grantor may do so at the expense of Grantee.

3. The reservation, hereby made by Grantor for themselves, their heirs, devisees, legal representatives and assigns, of all rights of lawful use of the property covered by the easements herein which will not unduly interfere with the rights of use of said easements by Grantee.

4. The rights of the owners of the mineral estate, in, on and under the property covered by the easements herein, same

having been heretofore reserved by Grantor's predecessors in title; provided, however, Grantor agrees that to the extent they can legally do so, they will not, without the prior written consent of Grantee, grant to others the right of use of the surface of said property to explore for, produce, mine and store minerals thereon.

5. The rights of owners of all existing easements to which the property covered by the easements herein might be subject, whether said existing easements be recorded or apparent upon inspection, said existing easements including, without limitation, the following: highway easement for State Highway FM 1593; railroad right of way easement granted to the Point Comfort & Northern Railroad Company; ground and aerial easement granted to Central Power & Light Co.; pipeline easements granted to Houston Pipeline Company, Lone Star Gas Pipeline Company, Arco Pipeline Company, Delhi Pipeline Company, Mobile Oil Corp., Ethylene-Oxy Petro Chemical Co. and Lavaca-Navidad River Authority; and all flood control and drainage easements.

6. The acknowledgment by Grantee, evidenced by its acceptance of this grant of easement, that prior to the acquisition of the easements herein, it examined the property to be covered thereby, and satisfied itself as to the condition thereof for use as authorized hereunder; that Grantors did not make, and do not make, any warranty or representation, express or implied, as to the condition of said property or the present or continued suitability thereof for use by Grantee; and that Grantee agrees to take said property "as is and with all faults".

7. The following covenants of Grantee, each of which shall run with the property and the easements thereon:

(a) Prior to commencement of operation of the pipeline installed in the permanent easement, Grantee will, at its expense, obtain all permits required by appropriate public authority to operate the aforesaid pipeline and make discharges therefrom into the Lavaca River, and at the place of discharge in said river, construct or install on the river side of Grantor's property such revetment and/or other structure as may be necessary to prevent erosion or damage to the property of Grantor, and prior to installation of said pipeline will 1) obtain permission, as may be required, from owners of other existing easements which may be affected by Grantee's use of the temporary and permanent easements herein granted, 2) remove all trees and brush from the permanent easement right of way and from the ditch which is adjacent on the south of Grantor's existing shell and gravel road leading from and to the entry and exit gate located in Grantor's east perimeter fence and hereinafter referred to, 3) reshape said ditch, and 4) install a 16 foot, cattle-proof, metal gate in Grantor's north perimeter fence at each of the two points therein where the permanent easement right of way intersects said fence, all as depicted on Exhibit "A-1", and provide Grantor with locks therefor comparable to those used for other gates in Grantor's perimeter fences.

(b) In making any use of the temporary and permanent easements, in the performance of all work thereon, and in the inspection, repair, replacement and operation of the aforesaid pipeline therein and the discharge of treated water therefrom, Grantee will do so in a good and workmanlike manner and with prudence and due regard for the environment and for the safety of all persons, including Grantor and their invitees, employees and representatives, and all property, including public property and the property of Grantor and of the persons aforesaid, will comply with all applicable laws, ordinances and regulations of, and all permits issued by, duly constituted public authorities, and will keep the permanent and temporary easement areas and the adjoining property of Grantor clean, at all times, from trash and debris emanating from such use.

(c) Within one (1) year from date hereof, Grantee will complete the installation of the pipeline in the permanent easement, the tunneling of said pipeline under State Highway FM 1593 and the construction on the river at the place of discharge from said pipeline, such revetment or other structure as are necessary to prevent erosion and damage to the property of Grantor, will notify Grantor in writing at least ten (10) days prior to the commencement of any such work and thereafter will complete the same with due diligence.

(d) The original pipeline, and any replacement thereof, is to be buried to a depth of not less than three feet (3')

below the surface of the ground and such minimum depth below ground surface level shall be continuously maintained by Grantee if such depth should thereafter be reduced by subsidence, natural causes or by act of Grantee and/or its agents. No appurtenances of said pipeline shall protrude above the surface of the ground, no revetment and/or other structures installed in or on the river side of Grantor's property at the place of discharge from said pipeline, shall protrude above a plane of the upland ground level projected across said river, and no markers for said pipeline will be installed on Grantor's property other than at a point in or on Grantor's perimeter fence line and the bank of the Lavaca River where entrance and exit of said pipeline is made to and from Grantor's property. The installation, repair, replacement and removing of said pipeline shall be done in accordance with good engineering and construction practice so as not to result in the impoundment of water or the interference with the normal and natural drainage of water in the area.

(a) In installing, repairing, replacing and removing the pipeline in the permanent easement, Grantee will, wherever possible, use the double trenching method, with all topsoil being removed first, placed on one side of the excavated trench and in the refilling thereof shall be replaced last therein, and the soil underlying the topsoil shall be removed last, placed on the opposite side of the excavated trench and in the refilling thereof replaced first therein.

(f) Immediately following completion of installation of the aforesaid pipeline and the tunneling thereof under State Farm to Market Highway 1593, the temporary or working easements shall forthwith terminate and the areas covered thereby shall be restored, as near as practical, to the condition which existed immediately prior to Grantee's use thereof and seeded with Gordo grass to a density required by good agricultural practice, the excavated area in the permanent easement shall be refilled to not less than the ground level which previously existed, all excavated soil remaining shall be spread alongside the excavated area and used thereafter to refill any part of the excavated area in which subsidence may occur, Grantor's present roadway which is included in the permanent easement right of way shall be reshaped, restored and graveled, and all machinery and equipment belonging to Grantee or its subcontractors shall be removed from Grantor's property, including the working and permanent easement areas.

Any excavated area in which subsidence may occur shall be promptly restored by Grantee to at least the ground level and condition which existed prior to excavation.

At the end of twelve (12) months following any operation requiring excavation, all soil removed in the process thereof and not thereafter used in refilling such excavated area, or any subsequently subsided portion thereof, shall be spread along the permanent easement right of way in

such a manner as to not interfere with natural drainage of the easement property and the adjoining property of Grantor and that portion of the permanent easement area which is not covered by Grantor's roadway shall then be graded and seeded with Gordo grass seed to the density above stated.

(g) Grantee shall compensate Grantor for all damages to Grantor's property, including roadways, resulting from Grantee's use thereof.

(h) While on the property of Grantor and/or the easements herein conveyed, no employee, agent, servant, or representative of Grantee or any of its subcontractors, shall molest cattle or wildlife, nor have in his or her possession any gun, fishing tackle, trap, or other instrument used to kill, trap, snare, or catch animals, fowl, or fish, nor shall any such person hunt or fish on or from Grantor's property or the easements herein conveyed.

(i) In making entry to, or exit from, Grantor's property, including the easements herein, Grantee: shall do so only through the 16 foot metal gate which fronts State Highway FM 1593 and is located in Grantor's east perimeter fence at a point near the intersection thereof with Grantor's north perimeter fence; will close and secure said gate after each entry and/or exit; after cessation of work each day on the easements, will lock said gate, using only the lock of Grantor; will keep a written log in which Grantee shall record, on each day, the name and address of each person who

is authorized by Grantee and makes entry and/or exit to and from Grantor's property, including the property covered by the easements herein, and the time of such entry and exit, and upon request by Grantor, Grantee will, without charge, furnish said log or a true copy thereof to Grantor; will, except only in such instances which require entry onto the permanent easement right of way in order to make emergency inspection and/or emergency repairs to the pipeline installed therein, Grantee will notify Grantor or the latter's designated representative at least twenty-four (24) hours prior to making any entry onto Grantor's property, including the property covered by the easements herein, and will obtain from Grantor a key to the latter's lock on the gate of entry; in an emergency situation, as aforesaid, requiring entry onto the permanent easement right of way, Grantee may break Grantor's lock on said gate to make such entry, but as soon as possible after doing so, will so notify Grantor or the designated agent of Grantor and furnish, without charge, a new lock to Grantor for use on said gate of entry; will require authorized persons making entry and exit to Grantor's property, including the easement areas, to do so on and over the roadway leading from the aforesaid gate to the easements herein, and upon reaching the easements herein, will require said persons to remain thereon until exit is made; will reimburse Grantor, weekly, for the latter's cost in maintaining, which Grantor shall have the right and option to do, a guard at the aforesaid gate who

will be authorized to maintain order, protect Grantor's property and prevent unauthorized persons from making entry to Grantor's property, including the property covered by easements herein; will require all persons authorized to make entry to Grantor's property, including the easements herein, to submit to the orders of said guard pertaining to entry, exit and right to be on Grantor's property; will not permit machinary, equipment or materials to be stored on the temporary and permanent easements other than that which is needed in the prosecution of on-going work on said easements; will not authorize or permit entry onto the easements herein or other property of Grantor by any person who is not employed by Grantee, its contractors or their subcontractors, agents, and representatives to perform work for Grantee on the temporary and permanent easements; will not, other than as herein authorized, cut, or install gates or gaps in, perimeter fences of Grantor without the prior written permission of Grantor; will not cut any cross fences of Grantor except when necessary to make authorized use of the temporary and permanent easements and then only after first notifying and securing the approval of Grantor or their designated representative and thereafter immediately installing, in a good and workmanlike manner, cattle proof gaps or gates, at option of Grantor, which gates or gaps are to be closed and secured after each use thereof.

(j) At all times, Grantee will indemnify and save Grantor harmless from and against all claims, demands, and causes of action, including those for exemplary damages, for injury, including injury resulting in death, to third persons, including servants, agents, employees, tenants, and invitees of Grantor, and for damage to the property of any of said persons or public property, and from and against all fines, penalties, levies, response costs or damages (including exemplary damages), assessed, levied or imposed, or threatened to be assessed, levied or imposed, against Grantor and/or their property (including that covered by the easements herein), by duly constituted public authority or by third parties, by reason of any alleged contamination of the environment, including air, water and soil, resulting, directly or indirectly, from use by the Grantee and its agents and representatives of the easements or other property (when so authorized) of the Grantor, and agrees to reimburse Grantor for all costs, including reasonable attorney's fees, incurred by Grantor in investigating and/or defending against any of the foregoing. Excepted from said indemnity and hold harmless agreement shall be that portion of any liability for claims, demands, and causes of action which result proximately from any act or omission of the Grantor, their servants, agents, employees, representatives, and invitees. The obligations of Grantee under the aforesaid indemnity and hold harmless

agreement shall survive any termination of this Grant of Easement.

(k) Without the prior written consent of Grantor, will not assign, lease, sub-let or rent the easements herein, other than to the parent company, if any, of Grantee, or to a wholly owned subsidiary of Grantee or of the parent company of Grantee.

(l) Grantee will reimburse Grantor for the latter's reasonable costs, expenses and attorney fees incurred in enforcing their rights hereunder.

Subject only to the aforesaid reservations, easements, conditions and covenants, TO HAVE AND TO HOLD the above described property unto FORMOSA PLASTICS CORPORATION TEXAS, its successors and assigns forever, and Grantor herein does hereby bind themselves, their heirs, devisees, legal representatives and assigns to WARRANT AND FOREVER DEFEND the aforesaid property against all persons claiming, or to claim, the same by, through or under Grantor, but not otherwise.

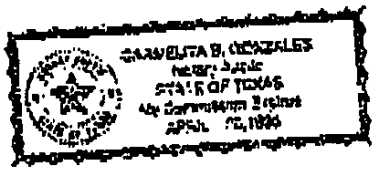
EXECUTED and DELIVERED this 17 day of November, 1994.

W. E. BAUER

LOUISE S. BAUER

STATE OF TEXAS §
§
COUNTY OF JACKSON §

This instrument was acknowledged before me on the 17 day of November, 1992, by W. E. BAUER and LOUISE S. BAUER.



Carmelita R. Gonzales
Notary Public in and for
The State of Texas

W.H.B.

L.S.B.

Centerline Description of a Proposed 30 Foot Wide Pipeline Easement

Part of the David Hoffman Survey, A-23, and the George Ewing Survey, A-30, Jackson County, Texas.

STATE OF TEXAS I

COUNTY OF JACKSON I

DESCRIPTION of the centerline of a proposed 30 foot wide pipeline easement situated in and a part of the David Hoffman Survey, A-23, and the George Ewing Survey, A-30, Jackson County, Texas. Said proposed pipeline easement also described as being in and a part of a tract of land called First Parcel and a 43.32 acre tract called Third Parcel in a deed recorded in Volume 373, Pages 398-400 of the Jackson County Deed Records and is more fully described as TRACT ONE & TRACT TWO as follows:

TRACT ONE

BEGINNING at a point in an existing fence line being the West line of Farm-to-Market Highway No.1593 and the East line of the Point Comfort Northern Railroad Right-of-Way for the Point Of Beginning of the Centerline of this proposed pipeline easement. Said point bears S 00° 29' 45" E, 29.0 feet from a concrete monument at the point of intersection of the East line of the Point Comfort and Northern Railroad Right-Of-Way with the North line of the aforementioned First Parcel;

THENCE, S 89° 35' 58" W, 2551.8 feet and S 89° 33' 28" W, 1302.7 feet to a point of angle to the right in the centerline of this proposed pipeline easement First Parcel;

THENCE, N 45° 22' 57" W for a distance of 39.75 feet to the TERMINUS POINT of this Centerline Description for TRACT ONE, in an existing fenceline along the North line of the aforementioned;

TRACT TWO

BEGINNING at the point of intersection of this centerline description with an existing fenceline along the Northeast line of the aforementioned 43.32 acre Third Parcel. Said Point of Beginning bears N 45° 22' 57" W, 288.35 feet and N 89° 27' 03" W, 1305.75 feet from the TERMINUS POINT of TRACT ONE. Said Point of beginning Also bears N 45° 12' 17" W, 279.24 feet from an existing concrete fence post marking a point of angle in an existing fenceline along the North line of the aforesaid First Parcel and the East corner of the aforesaid Third Parcel;

THENCE, S 89° 27' 03" W for a distance of 36.61 feet to a point of angle to the right;

THENCE, N 45° 12' 17" W for a distance of 1708.3 feet to the TERMINUS POINT of this centerline Description on the Southeast shoreline of the Lavaca River.

IP350.069

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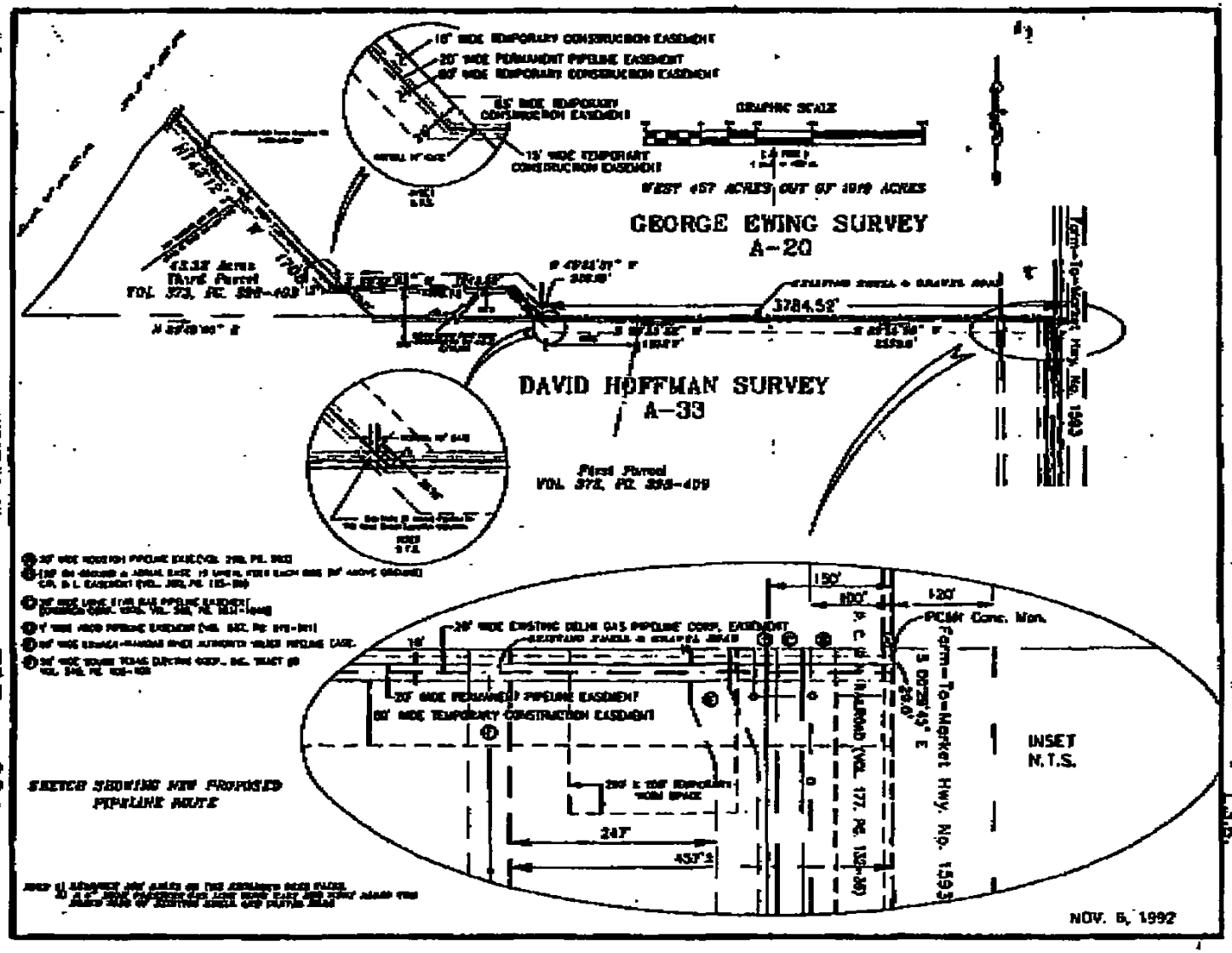
EXHIBIT "A"



#159,502

GRANT OF DISCHARGE
WATER LINE EASEMENT

W. H. BAUER, ET UX

TO

FORMOSA PLASTICS CORPORATION,
TEXAS

11/17/92 Fee: $36.00

FILED FOR RECORD THIS THE 20th
day of November A. D. 1992 at
2:20 P. M.

MARTHA KNAPP, COUNTY CLERK
JACKSON COUNTY, TEXAS
By _____ Deputy
Debbie Goodman

Return:
Mr. Glynn McDonald
P. O. Drawer H
Edna, TX 77957

VOL 767 PAGE 305

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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.

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

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: N/A

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.

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: Inteplast North Drainage Ditch

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: Lavaca River (tidal influenced)

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

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

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

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

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

☐ Perennial (normally flowing)

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

☐ USGS flow records

☒ personal observation

☐ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

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

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: Within 500 ft the ditch joins with Cox Creek

General observations of the water body during normal dry weather conditions: Mostly dry creek bed with a few locations along property boundaries with pooled water.

Date and time of observation: 8/16/24 10am

The water body was influenced by stormwater runoff during observations.

☐ Yes ☒ No

If **yes**, describe how: N/A

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: Click to enter text.

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: Stormwater

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

COOLING TOWER CHEMICAL ADDITIVES

A. Manufacturers Product Identification Number

Manufacturer – Kurita Nalco and GE
Product Identification Numbers:

Kurita, Kurifloc 2805
Kurita, Biotrol 103CF
Kurita Proclean 410
Kurita Protect 2036
GE, Genard GN8203
Nalco, 3DT404
Nalco, 8338
Nalco, 3DT176
Nalco, PermaClean PC-87
Nalco, PermaClean PC-97
Nalco, NalClear 7744
Nalco, Cat-Floc 8108 Plus
*Bleach and Sulfuric Acid-*see page 7*

B. Product Use

Kurita, Kurifloc 2805	Coagulant
Kurita, Biotrol 103CF	Biocide
Kurita Proclean 410	Antifoulant
Kurita Protect 2036	Closed Loop Treatment
GE, Genard GN8203	Corrosion Inhibitor
Nalco, 3DT404	Dispersant
Nalco, 8338	Corrosion Inhibitor
Nalco, 3DT176	Corrosion Inhibitor
Nalco, PermaClean PC-87	Reverse Osmosis Cleaner
Nalco, PermaClean PC-97	Reverse Osmosis Cleaner
Nalco, NalClear 7744	Flocculant
Nalco, Cat-Floc 8108 Plus	Water Treatment

* *Chilled water chemical additive, intermittently fed*

C. Chemical Composition including Chemical Abstracts System' (CAS) number for each ingredient

1) Kurita, Kurifloc 2805

	CAS Number
Dialuminum Chloride Pentahydroxide	12042-91-0

2) Kurita, Biotrol 103CF

Magnesium Nitrate	10377-60-3
5-chloro-2methyl-2H-isothiazolin-3-one	26172-55-4
2-methyl-2H-isothiazolin-3-one	2682-20-4

3)	Kurita, Proclean 410	
	Acetic acid	64-19-7
4)	Kurita, Protect 2036	
	Sodium nitrite	7632-00-2
	Borax	1303-96-4
	Sodium Tolytriazole	64665-57-2
5)	GE Gengard GN8203	
	Sodium Hydroxide	1310-73-2
	Chlorotolytriazole Sodium Salt	2024420-04-0
6)	Nalco, 3DT404	CAS Number
	High Stress Polymer 2 HSP2	Proprietary
	Sodium Benzotriazole	Proprietary
7)	Nalco, 8338	
	Sodium Nitrate	7632-00-0
	Inorganic Salt	Proprietary
	Substituted Triazole	Proprietary
	Sodium Tetraborate	1330-43-4
	Sodium Hydroxide	1310-73-2
8)	Nalco, 3DT176	
	Pyrophosphate	Proprietary
	Phosphonate PSO	Proprietary
9)	Nalco, PermaClean PC-87	
	Phosphoric Acid	7664-38-2
10)	Nalco, PermaClean PC-97	
	Tetrasodium EDTA	64-02-8
	Sodium Hydroxide	1310-73-2
	Sodium Cumemesulfonate	28348-53-0
	Sodium Dodecylbenzenesulphonate	25155-30-0
11)	Nalco, Nalclear 7744	
	Hydrotreated Light Distillate(petroleum)	64742-47-8
12)	Nalco, Cat-Floc 8108 Plus	
	Mixture	Proprietary

Kurifloc 2805

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 05/19/2021 Revision date: 08/17/2022 Supersedes: 02/02/2022 Version: 3.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : Kurifloc 2805

Product code : WT0251

1.2. Recommended use and restrictions on use

Recommended use : Coagulant

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN 55445 - USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Dialuminum Chloride Pentahydroxide	(CAS-No.) 12042-91-0	40	Met. Corr. 1, H290 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 1, H400

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Kurifloc 2805
No additional information available

Dialuminum Chloride Pentahydroxide (12042-91-0)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	hazy
Colour	:	Straw-colored to Blue-green
Odour	:	Slight characteristic
Odour threshold	:	No data available
pH	:	4 in a 15% aqueous solution
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	110 – 115 °C
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapour pressure	:	2.3 kPa
Relative vapour density at 20 °C	:	No data available
Relative density	:	1.33 – 1.35 g/cm3
Solubility	:	Complete.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
No data availableViscosity, kinematic	:	No data available
Viscosity, dynamic	:	10 mPa.s
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Dialuminum Chloride Pentahydroxide (12042-91-0)	
LD50 oral rat	9187 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
ATE US (oral)	9187 mg/kg bodyweight
ATE US (dust,mist)	1 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 4 in a 15% aqueous solution
Serious eye damage/irritation : Not classified
pH: 4 in a 15% aqueous solution
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

Kurifloc 2805	
LC50 - Fish [1]	100 – 500 mg/l Zebra Fish, 96 Hr
EC50 - Crustacea [1]	397 mg/l Daphnia magna, 48 Hr

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Dialuminum Chloride Pentahydroxide (12042-91-0)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Dialuminum Chloride Pentahydroxide (12042-91-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 08/17/2022

Kurita - SDS US (GHS HazCom 2012)

Author: *Kurita Water Industries Ltd.*
Revision Notes: *Updated to GHS format*
Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

Biotrol 103CF

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 09/20/2021 Revision date: 03/26/2024 Supersedes: 06/29/2022 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : Biotrol 103CF

Product code : BI0170

1.2. Recommended use and restrictions on use

Recommended use : Biocide

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN 55445 - USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 1C	H314 Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318 Causes serious eye damage.
Skin sensitisation, Category 1	H317 May cause an allergic skin reaction.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Magnesium nitrate	(CAS-No.) 10377-60-3	1 – 5	Ox. Sol. 3, H272
5-chloro-2-methyl-2H-isothiazolin-3-one	(CAS-No.) 26172-55-4	1 – 5	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330
2-methyl-2H-isothiazolin-3-one	(CAS-No.) 2682-20-4	0.1 – 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Nitrogen oxides. Carbon oxides (CO, CO2). Sulphur oxides. Metallic oxides. Halogenated compounds.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. Keep only in original container. Protect from sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Biotrol 103CF
No additional information available

Magnesium nitrate (10377-60-3)
No additional information available

5-chloro-2-methyl-2H-isothiazolin-3-one (26172-55-4)
No additional information available

2-methyl-2H-isothiazolin-3-one (2682-20-4)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves made of Nitrile, Butyl Rubber, Neoprene

Eye protection:

Safety glasses

Type	Field of application	Characteristics
Safety glasses, Safety goggles	Droplet	With side shields

Respiratory protection:

Device	Filter type	Condition
Air-Purifying Respirator (APR), reusable	Type A - High-boiling (>65 °C) organic compounds	Protection for Liquid particles

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow
Odour	: odourless
Odour threshold	: No data available
pH	: 4 – 6 Concentration: 1 %
Melting point	: 30 °F (-1 °C)
Freezing point	: No data available
Boiling point	: 212 °F (100 °C (1,013 hPa))
Flash point	: > 212 °F (> 100 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1.024 g/cm³ (68 °F / 20 °C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 1112 °F (> 600 °C)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1.244 mPa·s
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Biotrol 103CF	
LD50 oral rat	> 2000 mg/kg

Biotrol 103CF	
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	≈ 66.05 mg/l (Estimate) Exposure time: 4 h; Test atmosphere: dust/mist; Method: Calculation method

Skin corrosion/irritation : Causes severe skin burns.
pH: 4 – 6 Concentration: 1 %

Serious eye damage/irritation : Causes serious eye damage.
pH: 4 – 6 Concentration: 1 %

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : 1.215 mm²/s

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Biotrol 103CF	
EC50 - Crustacea [1]	11.88 mg/l Daphnia magna (Water Flea), 48 Hr
EC50 - Other aquatic organisms [1]	1700 mg/l Toxicity to Algae/Aquatic Plants= End Point: Growth Rate, Exposure Time: 10 Days, Test Type: Static Test, Analytical Monitoring: Yes, GLP: No, Remarks: Test results on an analogous product
EC50 - Other aquatic organisms [2]	> 1000 mg/l Toxicity to Microorganisms= Exposure Time: 3 Hour, Test Type: Respiration inhibition, Analytical Monitoring: No, Method: OECD Test Guideline 209, GLP: yes, Remarks: Test results on an analogous product

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT)	: UN3265 Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, PG III
UN-No.(DOT)	: UN3265
Proper Shipping Name (DOT)	: Corrosive liquid, acidic, organic, n.o.s. 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: PG III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	: 386 - Notwithstanding the provisions of §177.834(l) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 153
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport document description (TDG)	: UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, III
UN-No. (TDG)	: UN3265
Proper Shipping Name (TDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
TDG Primary Hazard Classes	: 8 - Class 8 - Corrosives
Packing group (TDG)	: III - Minor Danger

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	: 5 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L

Air transport

	: UN 3265 Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, III
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory		
Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S		
5-chloro-2-methyl-2H-isothiazolin-3-one	CAS-No. 26172-55-4	1 – 5%
2-methyl-2H-isothiazolin-3-one	CAS-No. 2682-20-4	0.1 – 1%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

5-chloro-2-methyl-2H-isothiazolin-3-one (26172-55-4)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

2-methyl-2H-isothiazolin-3-one (2682-20-4)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

15.2. International regulations

Magnesium nitrate (10377-60-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

5-chloro-2-methyl-2H-isothiazolin-3-one (26172-55-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

2-methyl-2H-isothiazolin-3-one (2682-20-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Magnesium nitrate(10377-60-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

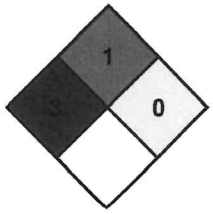
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 03/26/2024

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Kurita - SDS US (GHS HazCom 2012)

Author: *Kurita Water Industries Ltd.*
Revision Notes: *Updated to GHS format*
Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

PROCLEAN 410

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 05/27/2021 Revision date: 04/20/2022 Supersedes: 08/17/2021 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : PROCLEAN 410

1.2. Recommended use and restrictions on use

Recommended use : Antifoulant

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN 55445 - USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315 Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319 Causes serious eye irritation.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400 Very toxic to aquatic life.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic life.

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Acetic acid	(CAS-No.) 64-19-7	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PROCLEAN 410	
No additional information available	
Acetic acid (64-19-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Acetic acid
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Acetic acid
OSHA PEL TWA [1]	25 mg/m³
OSHA PEL TWA [2]	10 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Yellow to amber liquid.
Colour	: Grey
Odour	: Slight vinegar
Odour threshold	: No data available
pH	: 4 – 6
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F (Pensky Martens Closed Cup)

Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.97 – 0.99 g/mL
Density	: 8.25 lb/gal
Solubility	: Dispersible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
No data availableViscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	1060 mg/kg Source: HSDB, NITE
LC50 Inhalation - Rat	11.4 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Female, Experimental value, Inhalation (vapours), 14 day(s))
LC50 Inhalation - Rat [ppm]	16000 ppm Source: ChemIDPlus
ATE US (oral)	3310 mg/kg bodyweight
ATE US (dermal)	1060 mg/kg bodyweight
ATE US (gases)	16000 ppmv/4h
ATE US (vapours)	11.4 mg/l/4h
ATE US (dust,mist)	11.4 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 4 – 6

Serious eye damage/irritation	: Causes serious eye irritation. pH: 4 – 6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Acetic acid (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

PROCLEAN 410	
LC50 - Fish [1]	4.1 mg/l 96 Hr, Fathead Minnow
LC50 - Other aquatic organisms [1]	0.29 mg/l 48 Hr, Ceriodaphnia dubia

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetic acid (64-19-7)	
CERCLA RQ	5000 lb

15.2. International regulations

CANADA

Acetic acid (64-19-7)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	**State or local regulations**
Acetic acid(64-19-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

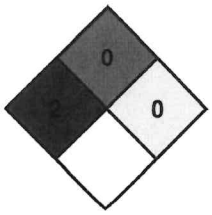
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 04/20/2022

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B

B - Safety glasses, Gloves

Kurita - SDS US (GHS HazCom 2012)

***Author**: Kurita Water Industries Ltd.*
***Revision Notes**: Updated to GHS format*
***Disclaimer**:*
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

PROTECT 2036

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 11/4/2021 Revision date: 7/25/2024 Supersedes: 3/8/2022 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form	: Mixture
Name	: PROTECT 2036
Product code	: CT0322

1.2. Recommended use and restrictions on use

Recommended use	: Closed Loop Treatment

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN, MN, 55445
USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number	: CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400	Very toxic to aquatic life.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302+H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H361 - Suspected of damaging fertility or the unborn child.
H400 - Very toxic to aquatic life.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.
P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Sodium nitrite	nitrous acid, sodium salt / sodium nitrite	CAS-No.: 7632-00-0	25 – 35	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist), H330 Eye Irrit. 2, H319 Aquatic Acute 1, H400
Borax	anhydrous borax, decahydrate / borates, tetra, sodium salt, decahydrate	CAS-No.: 1303-96-4	6 – 9	Acute Tox. 4 (Inhalation:dust,mist), H332

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Sodium Tolytriazole	1H-benzotriazole, 4(or 5)-methyl-, sodium salt / sodium 4(or 5)-methyl-1H-benzotriazolide	CAS-No.: 64665-57-2	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Repr. 2, H361

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

Explosion hazard : None known.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Borax (1303-96-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium tetraborate, decahydrate

Borax (1303-96-4)	
ACGIH OEL TWA	2 mg/m³ (I - Inhalable particulate matter)
ACGIH OEL STEL	6 mg/m³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Materials for protective clothing:
Chemical resistant safety shoes

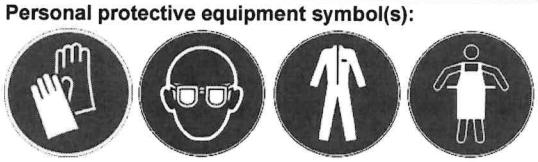
Hand protection:				
Protective gloves				
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>/= 0.11	Not available

Eye protection:		
Safety glasses		
Type	**Field of application**	**Characteristics**
Face shield, Safety goggles, Safety glasses	Droplet	With side shields

Skin and body protection:
Wear suitable protective clothing. Chemical resistant apron

Respiratory protection:		
In case of inadequate ventilation wear respiratory protection.		
Device	**Filter type**	**Condition**
Air-Purifying Respirator (APR), reusable	Type P3	Vapour protection

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear to yellow

Odour : Characteristic azole

Odour threshold : No data available

pH	:	11 – 12.5
Melting point	:	Not applicable
Freezing point	:	-12 °C / 10° F
Boiling point	:	No data available
Flash point	:	> 93 °C / > 200° F
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	1.29
Density	:	10.8 lb/gal
Solubility	:	Complete.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures. Protect from freezing.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Inhalation:dust,mist: Harmful if inhaled.

PROTECT 2036	
ATE US (oral)	514.286 mg/kg bodyweight
ATE US (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 11 – 12.5

Serious eye damage/irritation : Causes serious eye damage.
pH: 11 – 12.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. . Very toxic to aquatic life.

12.2. Persistence and degradability

PROTECT 2036	
Persistence and degradability	Rapidly degradable

Sodium nitrite	
Persistence and degradability	Rapidly degradable

Borax	
Persistence and degradability	Rapidly degradable

Sodium Tolytriazole	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : RCRA: Corrosive, D002.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

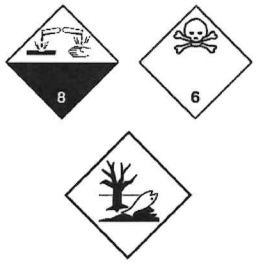
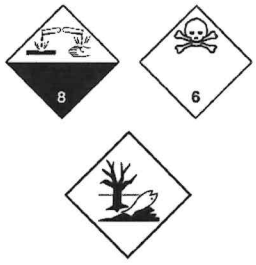
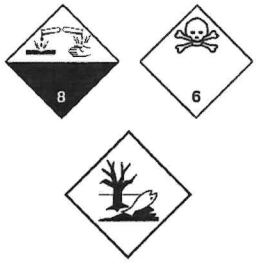
Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN2922	UN2922	2922	2922
14.2. Proper Shipping Name			
Corrosive liquids, toxic, n.o.s. (Sodium Nitrite)	CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Nitrite)	CORROSIVE LIQUID, TOXIC, N.O.S. (Sodium Nitrite)	Corrosive liquid, toxic, n.o.s. (Sodium Nitrite)
14.3. Transport hazard class(es)			
8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
			
14.4. Packing group			
PG III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN2922

DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"

TDG

UN-No. (TDG)	:	UN2922
TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	:	5 L
Excepted quantities (TDG)	:	E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	5 L
Emergency Response Guide (ERG) Number	:	154

IMDG

Special provisions (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1

Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T7
Tank special provisions (IMDG)	:	TP1, TP28
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	SW2
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation.

IATA

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3, A803
ERG code (IATA)	:	8P

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

Sodium nitrite	CAS-No. 7632-00-0	25 – 35%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sodium nitrite	CAS-No. 7632-00-0	25 – 35%

Sodium nitrite (7632-00-0)	
CERCLA RQ	100 lb

15.2. International regulations

CANADA

Sodium nitrite (7632-00-0)
Listed on the Canadian DSL (Domestic Substances List)

Borax (1303-96-4)
Listed on the Canadian DSL (Domestic Substances List)

Sodium Tolytriazole (64665-57-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Sodium nitrite (7632-00-0)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Borax (1303-96-4)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Sodium nitrite(7632-00-0)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Sodium Hydroxide (1310-73-2)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Borax(1303-96-4)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

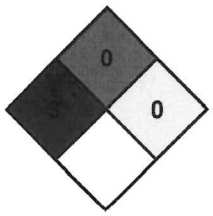
Revision date : 7/25/2024

Full text of hazard classes and H-statements	
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : C - Safety glasses, Gloves, Synthetic apron

Safety Data Sheet (SDS), USA

Author: Kurita Water Industries Ltd.
Revision Notes: Updated to GHS format
Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

GE Power
Water & Process Technologies

SAFETY DATA SHEET

GENGARD* GN8203

1. Identification

Product identifier	**GENGARD GN8203**
Other means of identification	None.
Recommended use	Corrosion inhibitor
Recommended restrictions	None known.

Company/undertaking identification

GE Betz, Inc.
4636 Somerton Road
Trevose, PA 19053
T 215 355 3300, F 215 953 5524

Emergency telephone

(800) 877 1940

2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement	
Prevention	Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Components	CAS #	Percent
Sodium hydroxide	1310-73-2	2.5 - 10
Chlorotolyltriazole sodium salt	202420-04-0	1 - 2.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments	Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Prevent entry into waterways, sewer, basements or confined areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

7. Handling and storage

Precautions for safe handling	Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Take precautions to minimize foaming.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation. Do not freeze. If frozen, thaw completely and mix thoroughly prior to use.

8. Exposure controls/personal protection

Occupational exposure limits

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

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

US. ACGIH Threshold Limit Values

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

US. NIOSH: Pocket Guide to Chemical Hazards

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

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Color	Amber to dark brown
Physical state	Liquid
Odor	Slight ammonia
Odor threshold	Not available.
pH (concentrated product)	13.5
pH in aqueous solution	12.3 (5% SOL.)
Melting point/freezing point	19 °F (-7 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	Not applicable.
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mm Hg
Vapor pressure temp.	70 °F (21 °C)
Vapor density	< 1 (Air = 1)
Relative density	1.2
Relative density temperature	70 °F (21 °C)
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	35 cps
Viscosity temperature	70 °F (21 °C)
Other information	
Percent volatile	0 (Estimated)
Pour point	24 °F (-4 °C)
Specific gravity	1.2

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. None under normal conditions.
Incompatible materials	Strong acids. Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.

Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity May cause respiratory irritation.

Product	Species	Test Results
GENGARD GN8203 (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, (Calculated according to GHS additivity formula)
Oral		
LD50	Rat	> 5000 mg/kg, (Calculated according to GHS additivity formula)

Components	Species	Test Results
Chlorotolyltriazole sodium salt (CAS 202420-04-0)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Oral		
LD50	Rat	3100 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Based on available data, the classification criteria are not met.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

Product		Species	Test Results
GENGARD GN8203 (CAS Mixture)			
	LC50	Fathead Minnow	276 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)

Product		Species	Test Results
		Menidia beryllina (Silversides)	400 mg/L, Estimated Acute Toxicity, 96 hour, (Similar Product)
		Mysid Shrimp	300 mg/L, Estimated Acute Toxicity, 96 hour, (Similar Product)
	NOEL	Fathead Minnow	125 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)
Aquatic			
Crustacea	LC50	Daphnia magna	911 mg/L, Static Renewal Bioassay, 48 hour, (pH adjusted)
	NOEL	Daphnia magna	500 mg/L, Static Renewal Bioassay, 48 hour, (pH adjusted)
Fish	LC50	Rainbow Trout	273 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)
	NOEL	Rainbow Trout	200 mg/L, Static Renewal Bioassay, 96 hour, (pH adjusted)

Components		Species	Test Results
Chlorotolyltriazole sodium salt (CAS 202420-04-0)			
Aquatic			
Algae	EbC50	Algae	6.84 mg/l
	ErC50	Algae	18.6 mg/l

* Estimates for product may be based on additional component data not shown.

Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	Not available.
Persistence and degradability	
	No data is available on the degradability of this product.
- COD (mgO2/g)	275 (calculated data)
- BOD 5 (mgO2/g)	21 (calculated data)
- BOD 28 (mgO2/g)	43 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	14 (calculated data)
- TOC (mg C/g)	86 (calculated data)

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (CHLOROTOLYLTRIAZOLE SODIUM SALT, SODIUM HYDROXIDE), RQ(SODIUM HYDROXIDE)

Transport hazard class(es)

Class	8
Subsidiary risk	-
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ERG number	154

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

IATA

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUIDS, N.O.S. (CHLOROTOLYLTRIAZOLE SODIUM SALT, SODIUM HYDROXIDE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	154
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (CHLOROTOLYLTRIAZOLE SODIUM SALT, SODIUM HYDROXIDE), RQ(SODIUM HYDROXIDE)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A,S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

DOT

IATA; IMDG

15. Regulatory information

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)

Hazardous substance

Safe Drinking Water Act (SDWA)

Not regulated.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

NSF Registered and/or meets USDA (according to 1998 guidelines):

Registration No. – 148465
Category Code(s):
G5 Cooling and retort water treatment products G7 Boiler, steam line treatment products – nonfood contact

US state regulations

US - Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2)

US - Pennsylvania RTK - Hazardous Substances

Sodium hydroxide (CAS 1310-73-2)

US - Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

Sodium hydroxide (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2)

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

No ingredient listed.

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

No ingredient listed.

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

Issue date	Nov-02-2014
Revision date	Jan-19-2016
Version #	3.0
List of abbreviations	CAS: Chemical Abstract Service Registration Number ACGIH: American Conference of Governmental Industrial Hygienists TWA: Time Weighted Average STEL: Short Term Exposure Limit LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% NOEL: No Observed Effect Level COD: Chemical Oxygen Demand BOD: Biochemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code NFPA: National Fire Protection Association TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
References:	No data available
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Prepared by	This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

* Trademark of General Electric Company. May be registered in one or more countries.

NALCO Water
An Ecolab Company

Product Bulletin

PRODUCT DESCRIPTION AND APPLICATION

3D TRASAR products are part of an innovative water treatment program that uses proven technology to prevent operational problems. **3D TRASAR** technology compensates for both routine and special causes of system variation. **3D TRASAR** programs provide a return on your investment through their unique control and diagnostic capabilities.

3D TRASAR 3DT404 technology is a balanced blend of a yellow-metal corrosion inhibitor and a scale and silt dispersant designed for use in open recirculating water systems and food processing equipment such as hydrostatic sterilizers, retorts and beverage pasteurizers.

3D TRASAR 3DT404 technology contains:

- High Stress Polymer 2 (HSP2) dispersant.
- Benzotriazole (BZT) for copper corrosion inhibition.

When used as the dispersant portion of a two- or three-product **3D TRASAR** program, **3D TRASAR 3DT404** technology provides superior dispersancy and calcium phosphate scale control due to its ability to control treatment based on polymer actives.

This product must be fed as one part of a multiproduct, integrated **3D TRASAR** program for cooling water systems.

PHYSICAL & CHEMICAL PROPERTIES

These properties are typical. Refer to the Safety Data Sheet (SDS) for the most current data.

Form	Liquid
Color	Clear to hazy, yellow to light brown
Specific Gravity @ 77°F (25°C)	1.217
pH (Neat)	13
Freeze-Thaw Recovery	
Flash Point	Not Applicable
Odor	None
Freeze Point	
Solubility in Water	Complete
Viscosity @ 77°F (25°C)	

ACTIVE CONSTITUENTS

Active	Function
High Stress Polymer 2 (HSP2)	Dispersant
Sodium Benzotriazole	Copper Corrosion Inhibitor

REGULATORY APPROVALS

Please refer to the Regulatory Certifications & Registrations (RCR) document for the most recent approval information.

MATERIALS OF COMPATIBILITY

Material compatibility data are only valid for product storage and feed systems. The following data is for the product as supplied and should be useful in specifying materials of construction of tanks, pumps, valves, piping, etc. used for storing, feeding, or transporting material.

Compatible	Not Compatible
304 Stainless Steel	Mild Steel
316 Stainless Steel	FKM, Viton A, Fluoroelastomer
HDPE, High Density Polyethylene	Liner EHD0045, Epoxy phenolic
LLDPE, Porta-Feed Liner	Liner HXG0009, Phenolic
PP, Polypropylene	Plasite 7122, Epoxy phenolic (x-linked)
PVC, Polyvinylchloride - Type 1	
PVDF, Kynar - Polyvinylidene Fluoride	
PTFE, Teflon, Polytetrafluoroethylene	
Fluorinated HDPE (SMP) Schuetz Bottle	
CR, Neoprene	
EPDM, Ethylene-propylene diene rubber	
NBR, Buna-N, Nitrile	
FFKM, Kalrez 1050	

DOSAGE AND FEEDING

For complete dosage and feeding recommendations, consult your Nalco Sales Engineer.

ENVIRONMENTAL AND TOXICITY DATA

Refer to the Safety Data Sheet (SDS) for available mammalian and aquatic toxicity information.

SAFETY AND HANDLING

3D TRASAR 3DT404 technology is an alkaline product. Read the Safety Data Sheet for specific personal protective equipment (PPE) recommendations and for health effects information.

STORAGE

TRASAR 3DT404 technology should be stored in a location where the product temperature can be kept in a range between 32°F (0°C) and 120°F (50°C).The recommended in-plant storage limit for **3D TRASAR 3DT404** technology is one year. Refer to the Safety Data Sheet (SDS) for the most current data.

3D TRASAR 3DT404 technology contains a reportable quantity (RQ) substance. All storage vessels must be in secondary containment if the storage capacity exceeds the RQ of 26,790 lb (12,150 kg) (US Regulation).

This product has the potential for foaming in bulk and transfer deliveries. Please ensure that all deliveries are offloaded slowly using a pump and **NOT AIR.**

REMARKS

If you need assistance or more information on this product, please call your nearest NALCO Water representative.

For more news about NALCO Water, an Ecolab company, visit our website www.nalco.ecolab.com

For **Medical and Transportation Emergencies** involving NALCO Water products, please see the Safety Data Sheet for the phone number.

ADDITIONAL INFORMATION

NALCO Water
An Ecolab Company

SAFETY DATA SHEET

NALCO® 8338

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	NALCO® 8338
Other means of identification	:	Not applicable.
Recommended use	:	CLOSED SYSTEM CORROSION INHIBITOR
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630) 305-1000
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	11/10/2023

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2B
Specific target organ toxicity - single exposure (Oral)	:	Category 1 (Blood)

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Harmful if swallowed.
Causes skin and eye irritation.
Causes damage to organs (Blood) if swallowed.

Precautionary Statements :

Prevention:
Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wear protective gloves.

Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/ physician.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Sodium Nitrite	7632-00-0	10 - 30
Inorganic salt	Proprietary	1 - 5
Substituted Triazole	Proprietary	1 - 5
Sodium Tetraborate	1330-43-4	0.1 - 1
Sodium Hydroxide	1310-73-2	0.1 - 1

Section: 4. FIRST AID MEASURES

In case of eye contact	:	Rinse with plenty of water. Get medical attention if symptoms occur.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Get medical attention if irritation develops and persists.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Get medical attention if symptoms occur.
Protection of first-aiders	:	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) metal oxides
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

emergency procedures

Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin and eyes. Do not ingest. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	:	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.
Unsuitable material	:	not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Tetraborate	1330-43-4	TWA	1 mg/m3	NIOSH REL
		TWA (Inhalable fraction)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhalable fraction)	6 mg/m3 (Borate)	ACGIH
Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses

Hand protection : Wear impervious chemical-resistant gloves when handling this product.
The following glove types are recommended based on our review of glove manufacturer information and/or other available sources.
Neoprene
Butyl rubber
Viton® gloves
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Other glove types may be used for short term, incidental contact if determined by testing to provide adequate worker protection.

Skin protection	:	Wear suitable protective clothing.
Respiratory protection	:	Use local exhaust ventilation or other engineering controls as necessary to control airborne mist and vapor. Where concentrations in air may exceed the limits given in this section or when significant mists, vapors, aerosols are generated, an approved air purifying respirator equipped with suitable filter cartridges is recommended. Use a particulate pre-filter where operations generate significant mists or aerosols. Recommended gas and vapour cartridge: Multi-purpose combination filter In event of emergency or planned entry into unknown concentrations, a positive pressure, full-facepiece SCBA or supplied-air respirator should be used.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	yellow
Odour	:	Organic
Flash point	:	Not flammable
pH	:	11.5 - 14.0,(100 %), (25 °C)
Odour Threshold	:	no data available
Melting point/freezing point	:	Freezing Point: -16.6 °C
Initial boiling point and boiling range	:	120 °C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.16 - 1.20, (25.0 °C),
Density	:	9.8 lb/gal
Water solubility	:	completely soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available

Thermal decomposition	:	no data available
Viscosity, dynamic	:	3 mPa.s (21 °C)
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	Amines Strong acids Reducing agents
Hazardous decomposition products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) metal oxides

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	:	Causes eye irritation.
Skin	:	Causes skin irritation.
Ingestion	:	Harmful if swallowed.
Inhalation	:	Health injuries are not known or expected under normal use.
Chronic Exposure	:	May cause damage to organs.

Experience with human exposure

Eye contact	:	Redness, Irritation
Skin contact	:	Redness, Irritation
Ingestion	:	No information available.
Inhalation	:	No symptoms known or expected.

Toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: 904.52 mg/kg
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Skin corrosion/irritation	:	no data available
Serious eye damage/eye irritation	:	no data available
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

Components

Acute dermal toxicity	:	Inorganic salt LD50 rat: > 5,000 mg/kg Test substance: Information given is based on data obtained from similar substances.

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects	:	Harmful to aquatic life. Harmful to aquatic life.

Product

Toxicity to fish	:	LC50 Oncorhynchus mykiss (rainbow trout): 38 mg/l Exposure time: 96 hrs Test substance: Product LC50 Pimephales promelas (fathead minnow): 303 mg/l Exposure time: 96 hrs Test substance: Product NOEC Oncorhynchus mykiss (rainbow trout): 13 mg/l Exposure time: 96 hrs Test substance: Product NOEC Pimephales promelas (fathead minnow): 125 mg/l Exposure time: 96 hrs Test substance: Product

Toxicity to daphnia and other aquatic invertebrates	:	LC50 Daphnia magna (Water flea): 250 mg/l Exposure time: 48 hrs Test substance: Product LC50 Ceriodaphnia dubia: 138 mg/l Exposure time: 48 hrs Test substance: Product EC50 Daphnia magna (Water flea): 120 mg/l Exposure time: 48 hrs Test substance: Product NOEC Daphnia magna (Water flea): 79 mg/l Exposure time: 48 hrs Test substance: Product NOEC Ceriodaphnia dubia: 100 mg/l Exposure time: 48 hrs Test substance: Product

Components

Toxicity to algae	:	Substituted Triazole EC50 Aquatic Plant: 53 mg/l Exposure time: 72 h Sodium Tetraborate EC50 Pseudokirchneriella subcapitata (algae): 52.4 mg/l Exposure time: 72 h Test substance: Information given is based on data obtained from similar substances.

Components

Toxicity to fish (Chronic toxicity)	:	Inorganic salt NOEC: 58 mg/l Exposure time: 30 d Species: Pimephales promelas (fathead minnow)

Components

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Substituted Triazole NOEC: 0.4 mg/l Exposure time: 21 d Species: Daphnia galeata (water flea)

Persistence and degradability

Biodegradability : Result: Not applicable - inorganic

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Chemical Oxygen Demand (COD): 77,600 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor

5 d	< 2 mg/l	Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.
If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	:	<5%
Water	:	30 - 50%
Soil	:	50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated at the time of disposal to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods	:	Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

This product is not classified as a DOT hazardous material if the RQ quantity is not met or exceeded in the specific shipping container.

Land transport (DOT)

Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Technical name(s)	:	Sodium Nitrite
UN/ID No.	:	UN 3082
Transport hazard class(es)	:	9
Packing group	:	III
Reportable Quantity (per package)	:	508 lbs
RQ Component	:	Sodium Nitrite

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : The following substance(s) is/are subject to a Significant New Use Rule: Sodium Nitrite

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: Sodium Nitrite

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Nitrite	7632-00-0	100	508

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Specific target organ toxicity (single or repeated exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium Nitrite	7632-00-0	10 - 20 %
Sodium Nitrate	7631-99-4	1 - 5 %

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory
On or in compliance with the active portion of the TSCA inventory

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)
All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)
The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory
All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)
Contains substance(s) not listed on the Korea Existing Chemicals Inventory.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)
All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

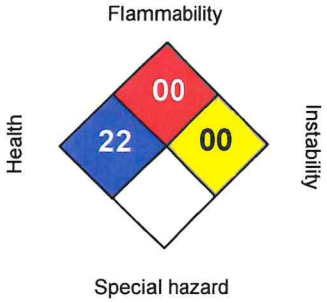
China Inventory of Existing Chemical Substances
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996,and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Taiwan Chemical Substance Inventory
All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date	:	11/10/2023
Version Number	:	2.0
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
For additional copies of an SDS visit www.ecolab.com/sds and request access.

NALCO Water
An Ecolab Company

3D TRASAR™ 3DT176

Dual Corrosion Inhibitor

PRODUCT DESCRIPTION AND APPLICATION

3D TRASAR products are part of an innovative water treatment program that uses proven technology to prevent operational problems. **3D TRASAR** technology compensates for both routine and special causes of system variation. **3D TRASAR** programs provide a return on your investment through their unique control and diagnostic capabilities.

3D TRASAR 3DT176 technology is a dual corrosion inhibitor with Nalco Water™ **3D TRASAR** technology for industrial open recirculating cooling water systems. **3D TRASAR 3DT176** technology is designed for use as corrosion control supplemental product to be used along with dispersant polymer.

This product is most effective in cooling systems with corrosive water and low to medium hardness and/or alkalinity. **3D TRASAR 3DT176** product will provide protection over a wide range of operating conditions.

3D TRASAR 3DT176 product can provide the following benefits in customer systems:

- Management of cooling system operation based on the operational stresses placed upon it
- Extended tube bundle and equipment life due to reduced corrosion and scale
- Reduced energy costs due to cleaner heat transfer surfaces

PHYSICAL & CHEMICAL PROPERTIES

These properties are typical. Refer to the Safety Data Sheet (SDS) for the most current data.

Nalco Water, an Ecolab Company
1601 West Diehl Road
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Greater China
180, Lane 168
Da Du He Road
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Latin America
Av. Francisco Matarazzo
nº 1350
São Paulo - SP Brazil
CEP: 05001-100

Middle East and Africa
Street 1010
Near Container Terminal 3
Jebel Ali Free Zone
P.O. BOX 262015, Dubai UAE

Appearance	Dark Yellow to Clear
Odor	Ammoniacal
Form	Liquid
Density@ 60°F (16°C)	10.7 lb/gal
Specific Gravity @ 60°F (16oC)	1.2802
pH (neat)	10.5
Viscosity @ 73°F (23°C)	na
Freeze Point	19°F (-7.2°C)
Flash Point (PMCC)	Does not flash
Freeze-Thaw Recovery	Not Available
Vapor Pressure	Not Available
VOC Content	1.6% calculated
Solubility in Water	Complete

ACTIVE CONSTITUENTS

Component	Function
Pyrophosphate	Cathodic Corrosion Inhibitor
Phosphonate (PSO)	$CaCO_3$ Scale Inhibitor/ Cathodic Corrosion Inhibitor

REGULATORY APPROVALS

Refer to the Regulatory Certifications & Registrations (RCR) document for the most recent information on approvals.

MATERIALS OF COMPATIBILITY

Material compatibility data are only valid for product storage and feed systems.

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Compatible	Not Compatible
304 Stainless Steel	Mild Steel
316 Stainless Steel	Brass
CPVC, Chlorinated Polyvinylchloride	
HDPE, High Density Polyethylene	
LLDPE, PORTA-FEED™ Liner	
PA, Polyamide - Nylon 11	
PMMA, Polymethyl methacrylate	
PP, Polypropylene	
PTFE, Fluoropolymer, Polytetrafluoroethylene	
PVC, Polyvinylchloride - Type 1	
PVDF, Kynar, Polyvinylidine Fluoride	
UHMWPE, Ultra High Molecular Weight PE	
CR, Neoprene	
EPDM, Ethylene-propylene diene rubber	
FFKM, Kalrez® perfluoroelastomer 1050	
FKM, Viton® synthetic rubber A, Fluoroelastomer	
NBR, Buna-N, Nitrile	
Liner EHD0045 Epoxy phenolic	

DOSAGE AND FEEDING

3D TRASAR technology assures proper product dosage is fed. Monitoring the water chemistry will help determine how well the chemical treatment program is working. The water analysis should be conducted on a routine basis to ensure that the water chemistry is kept in an appropriate range.

The dosage of the **3D TRASAR 3DT176** product will vary with water chemistry and other site specific parameters by using the **3D TRASAR Optimizer** tool. Consult your Nalco Water sales engineer for complete dosage and feeding recommendations.

3D TRASAR 3DT176 technology is designed for use in systems where less than 0.5 ppm of inorganic phosphate is present in the make-up water. This product is a cathodic corrosion inhibitor and should only be used in systems with elevated orthophosphate make-up.

ENVIRONMENTAL AND TOXICITY DATA

Refer to the Safety Data Sheet (SDS) for the most current data.

SAFETY AND HANDLING

Nalco Water, an Ecolab Company
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3D TRASAR 3DT176 product is an alkaline product, and may cause skin and eye irritation. Chemical-resistant gloves and safety goggles should be worn when handling **3D TRASAR 3DT176** equipment. Please refer to the Safety Data Sheet (SDS) for the most current data.

3D TRASAR 3DT176 equipment should be stored in a location where the product temperature can be kept in a range between 32°F (0°C) and 120°F (49°C). In cold climates, heat tracing and insulation of exposed containers and transfer lines may be necessary.

STORAGE

Refer to the Safety Data Sheet (SDS) for the most current data. Recommended in-plant storage limit is one year.

REMARKS

If you need assistance or more information on this product, please call your nearest Nalco Water representative.

For **Medical and Transportation Emergencies** involving Nalco Water products, please see the Safety Data Sheet for the phone number.

ADDITIONAL INFORMATION

Nalco Water, an Ecolab Company
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NALCO Water
An Ecolab Company

SAFETY DATA SHEET

PermaClean™ PC-87

Section: 1. PRODUCT IDENTIFICATION

Product name	:	PermaClean™ PC-87
Other means of identification	:	Not applicable.
Recommended use	:	REVERSE OSMOSIS CLEANER
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Manufactured or Distributed in Costa Rica by: ECOLAB Costa Rica SRL Zona Franca BES, El Coyol 7 Km al Oeste Aeropuerto Juan Santamaría Alajuela Apdo109-4003 Costa Rica Product Distributed in El Salvador by: ECOLAB, S.A, de C.V. 12 Calle Poniente y 23 Avenida Sur #700 Colonia Cucumacayan, San Salvador El Salvador Product Distributed in Honduras by: ECOLAB Ofibodegas Premier Bodega No.8 en el Boulervard del este a 30 mts de la caseta de peaje San Pedro Sula Honduras Product Distributed in Panama by: ECOLAB Albrook Comercial Park, Local D-14, Calle Ruben Dario Curundu Panama Product Distributed in Guatemala by: ECOLAB S.A. 42 Calle 23-00 Zona 12, Bodega 8 Guatemala Product Distributed in Nicaragua by: ECOLAB C.C.R.L. KM 16.7 Carretera a Ticuantepe, 200 mts camino a la comunida San Pedro Ticuantepe Managua Nicaragua
Emergency telephone number	:	Costa Rica: For medical emergency information, call 911 and (506) 2436-3900 in Costa Rica. National Center of Intoxication in Costa Rica: (506) 2223-1028 El Salvador: National Center of Intoxication in El Salvador TEL. (503) 22319262 Honduras: Medical School of Tegucigalpa Honduras (504) 2232-2322 Panama: System of Emergency Management of the Republic of Panama (SUME) - TEL. 911 Guatemala: Toxicological Information Center of Guatemana - CIAT (502) 2230 0807 Nicaragua: National Center of Intoxication in Nicaragua (505) 2897150
Issuing date	:	28.02.2020

Section: 2. HAZARD OR HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals, Category 1	H290
Acute toxicity (Inhalation), Category 5	H333
Skin corrosion/irritation, Category 3	H316

Serious eye damage/eye irritation, Category 1 H318

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements :

H290	May be corrosive to metals.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H333	May be harmful if inhaled.

Precautionary Statements :

Prevention:

P234	Keep only in original packaging.
P280e	Wear eye protection/face protection.

Response:

P304 + P312	IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.

Other hazards : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION / INFORMATION OF HAZARDOUS INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Phosphoric Acid	7664-38-2	5 - 10

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.

Notes to physician : Treat symptomatically.

Most important symptoms : See Section 11 for more detailed information on health effects and symptoms.

and effects, both acute and delayed

Potential Health Effects

Eyes	:	Causes serious eye damage.
Skin	:	Causes mild skin irritation.
Ingestion	:	Health injuries are not known or expected under normal use.
Inhalation	:	May be harmful if inhaled.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL SPILLAGE

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

		Wash hands thoroughly after handling. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions for safe storage	:	Keep away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	:	Keep in properly labelled containers.
Unsuitable material	:	not determined

Section: 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Phosphoric Acid	7664-38-2	TWA	1 mg/m3	CR OEL
		STEL	3 mg/m3	CR OEL
Phosphoric Acid	7664-38-2	TLV-TWA	1 mg/m3	DO OEL
Phosphoric Acid	7664-38-2	CPT	1 mg/m3	PA OEL
		CCT	3 mg/m3	PA OEL
Phosphoric Acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Recommended preventive skin protection
Gloves
Nitrile rubber
butyl-rubber
Breakthrough time: 1 – 4 hours
Consult PPE manufacturer for the appropriate glove thickness (depending on the type of gloves and its intended use).
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Wear suitable protective clothing.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Human Exposure Characterization :
Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Colour	:	colourless
Odour	:	Acidic
Flash point	:	does not flash
pH	:	1,5,(100 %)
Odour Threshold	:	no data available
Melting point/freezing point	:	Freezing Point: -8,8 °C
Initial boiling point and boiling range	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1,03 - 1,07, (25 °C), ASTM D-1298
Density	:	1,04 g/cm3 , 8,64 lb/gal
Water solubility	:	completely soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	2 mPa.s (23 °C), Method: ASTM D 2983
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong bases

Hazardous decomposition products	:	In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact

Experience with human exposure

Eye contact	:	Redness, Pain, Corrosion
Skin contact	:	Redness, Pain, Irritation
Ingestion	:	No symptoms known or expected.
Inhalation	:	No information available.

Toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 30,77 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg
Skin corrosion/irritation	:	no data available
Serious eye damage/eye irritation	:	no data available
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

Human Hazard Characterization

Based on our hazard characterization, the potential human hazard is: Moderate

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	:	This product has no known ecotoxicological effects.

Product

Toxicity to fish	:	LC50 Oncorhynchus mykiss (rainbow trout): > 1.000 mg/l Exposure time: 96 hrs Test substance: Product LC50 Pimephales promelas (fathead minnow): 3.660 mg/l Exposure time: 96 hrs Test substance: Product LC50 Oncorhynchus mykiss (rainbow trout): 4.844 mg/l Exposure time: 96 hrs Test substance: Product NOEC Pimephales promelas (fathead minnow): 2.500 mg/l Exposure time: 96 hrs Test substance: Product NOEC Oncorhynchus mykiss (rainbow trout): 2.500 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	:	LC50 Daphnia magna (Water flea): 2.083 mg/l Exposure time: 48 hrs Test substance: Product LC50 Ceriodaphnia dubia: 1.625 mg/l Exposure time: 48 hrs Test substance: Product NOEC Daphnia magna (Water flea): 1.250 mg/l Exposure time: 48 hrs Test substance: Product NOEC Ceriodaphnia dubia: 1.000 mg/l Exposure time: 48 hrs Test substance: Product
Toxicity to algae	:	no data available
Toxicity to fish (Chronic toxicity)	:	EC25 / IC25: 1.972 mg/l Exposure time: 7 Days Species: Fathead Minnow Test substance: Product LOEC: 2.500 mg/l Exposure time: 7 Days Species: Fathead Minnow Test substance: Product NOEC: 1.250 mg/l Exposure time: 7 Days Species: Fathead Minnow Test substance: Product

Components

Toxicity to algae	:	Phosphoric Acid

EC50 Desmodesmus subspicatus (green algae): > 100 mg/l
Exposure time: 72 h

Persistence and degradability

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.
If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	:	<5%
Water	:	30 - 50%
Soil	:	50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION
Based on our hazard characterization, the potential environmental hazard is: Low

Section: 13. INFORMATION REGARDING THE DISPOSAL OF PRODUCTS

Disposal methods	:	Where possible, recycling is preferable to deposition or incineration in accordance with local legislation. If you can not recycle, dispose according to local regulations. Elimination of waste in authorized waste disposal plants.
Disposal considerations	:	Remove as unused products. Empty containers should be taken to an authorized waste management site, for recycling or disposal in accordance with local legislation. Do not reuse empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport: generally applicable for transport in Central America

Proper shipping name	:	PHOSPHORIC ACID SOLUTION
Technical name(s)	:	
UN/ID No.	:	1805
Transport hazard class(es)	:	8
Packing group	:	III

Air transport (IATA)

Proper shipping name	:	PHOSPHORIC ACID SOLUTION
Technical name(s)	:	
UN/ID No.	:	UN 1805
Transport hazard class(es)	:	8
Packing group	:	III

Sea transport (IMDG/IMO)

Proper shipping name	:	PHOSPHORIC ACID SOLUTION
Technical name(s)	:	
UN/ID No.	:	UN 1805
Transport hazard class(es)	:	8
Packing group	:	III

Section: 15. REGULATORY INFORMATION

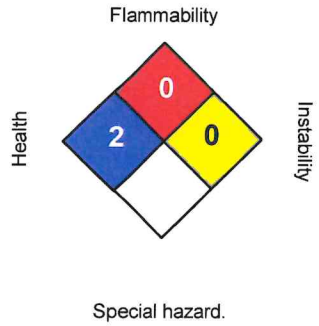
Our Safety Data Sheet (SDS) complies with Decree n ° 40705-S

FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act :
When use situations necessitate compliance with FDA regulations, this product is acceptable under : This product has been affirmed as GRAS (Generally Recognized as Safe) under 21 CFR 570.30 for use in animal feed, when used according to the following limitations:

Product may be used as an antiscalant in Clean-In-Place reverse osmosis membrane cleaning within the dry grind ethanol industry where the by-product dried distiller's grain (DDG) may also become component of animal feed. The GRAS status of all product components and the NSF Std. 60 listing demonstrates suitable purity for the intended use; therefore, when the product is used in accordance with manufacturer's recommendations, is suitable for direct or indirect contact with food.

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date	:	28.02.2020
Version Number	:	1.2
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

NALCO Water
An Ecolab Company

SAFETY DATA SHEET

PermaClean™ PC-97

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	PermaClean™ PC-97
Other means of identification	:	Not applicable.
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630) 305-1000
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	05/04/2021

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion	:	Category 1
Serious eye damage	:	Category 1

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements :

Prevention:
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)

Tetrasodium EDTA	64-02-8	5 - 10
Sodium Hydroxide	1310-73-2	5 - 10
Sodium Cumenesulfonate	28348-53-0	1 - 5
Sodium Dodecylbenzenesulphonate	25155-30-0	1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	:	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	:	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	:	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	:	Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.
Suitable material	:	Keep in properly labelled containers.
Unsuitable material	:	not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	light brown
Odour	:	Slight
Flash point	:	Not applicable.
pH	:	12.0 - 13.0,(100 %)
Odour Threshold	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	> 100 °C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.152 - 1.182,
Density	:	no data available
Water solubility	:	soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	:	Causes serious eye damage.
Skin	:	Causes severe skin burns.
Ingestion	:	Causes digestive tract burns.
Inhalation	:	May cause nose, throat, and lung irritation.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	:	Redness, Pain, Corrosion
Skin contact	:	Redness, Pain, Corrosion
Ingestion	:	Corrosion, Abdominal pain
Inhalation	:	Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available

Skin corrosion/irritation	:	no data available
Serious eye damage/eye irritation	:	no data available
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : LC50 Rainbow Trout: 177 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Rainbow Trout: 125 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Daphnia magna: 483 mg/l
Exposure time: 48 hrs
Test substance: Product

EC50 Daphnia magna: 354 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Daphnia magna: 250 mg/l
Exposure time: 48 hrs
Test substance: Product

Persistence and degradability

no data available

Mobility

no data available

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods	:	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name	:	SODIUM HYDROXIDE SOLUTION
Technical name(s)	:	
UN/ID No.	:	UN 1824
Transport hazard class(es)	:	8
Packing group	:	II
Reportable Quantity (per package)	:	15,919 lbs
RQ Component	:	Sodium Hydroxide

Air transport (IATA)

Proper shipping name	:	SODIUM HYDROXIDE SOLUTION
Technical name(s)	:	
UN/ID No.	:	UN 1824
Transport hazard class(es)	:	8
Packing group	:	II
Reportable Quantity (per package)	:	15,919 lbs
RQ Component	:	Sodium Hydroxide

Sea transport (IMDG/IMO)

Proper shipping name	:	SODIUM HYDROXIDE SOLUTION
Technical name(s)	:	
UN/ID No.	:	UN 1824
Transport hazard class(es)	:	8
Packing group	:	II

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Hydroxide	1310-73-2	1000	15919

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)
All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)
The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)
not determined

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory
not determined

Korea. Korean Existing Chemicals Inventory (KECI)
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

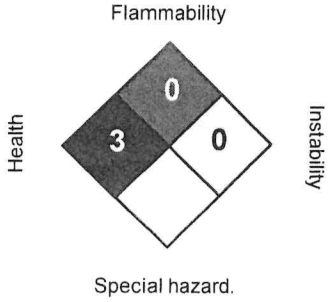
On the inventory, or in compliance with the inventory.

China Inventory of Existing Chemical Substances
On the inventory, or in compliance with the inventory.

Taiwan Chemical Substance Inventory
not determined

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date	:	05/04/2021
Version Number	:	1.3
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
For additional copies of an SDS visit www.nalco.com and request access.

NALCO Water
An Ecolab Company

SAFETY DATA SHEET

NALCLEAR™ 7744

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	NALCLEAR™ 7744
Other means of identification	:	Not applicable.
Recommended use	:	FLOCCULANT
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630) 305-1000
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	10/23/2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Hydrotreated Light Distillate (petroleum)	64742-47-8	1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact	:	Rinse with plenty of water. Get medical attention if symptoms occur.
In case of skin contact	:	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Get medical attention if symptoms occur.

Protection of first-aiders	:	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Wash hands thoroughly after handling.
Conditions for safe storage	:	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Protect product from freezing.

Suitable material : Keep in properly labelled containers.

Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Hydrotreated Light Distillate (petroleum)	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z1
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z1
		TWA (Mist)	5 mg/m3	NIOSH REL
		STEL (Mist)	10 mg/m3	NIOSH REL
Sulfuric Acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses

Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Wear suitable protective clothing.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : off-white

Odour : hydrocarbon-like

Flash point : 93.3 °C, Method: ASTM D 93, Pensky-Martens closed cup, minimum

pH : 3.6 - 5.0,(100 %), Method: ASTM E 70

Odour Threshold : no data available

Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.04, (25 °C),
Density	:	1.04 g/cm3 , 8.4 - 8.7 lb/gal
Water solubility	:	completely soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	0 %, 0 g/l, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Freezing temperatures.
Incompatible materials	:	None known
Hazardous decomposition products	:	In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx)

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	:	Health injuries are not known or expected under normal use.
Skin	:	Health injuries are not known or expected under normal use.
Ingestion	:	Health injuries are not known or expected under normal use.
Inhalation	:	Health injuries are not known or expected under normal use.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	:	No symptoms known or expected.
Skin contact	:	No symptoms known or expected.
Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.

Toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Skin corrosion/irritation	:	no data available
Serious eye damage/eye irritation	:	no data available
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	:	Harmful to aquatic life.

Product

Toxicity to fish	:	LC50 Pimephales promelas (fathead minnow): 1,768 mg/l Exposure time: 96 hrs Test substance: Product NOEC Pimephales promelas (fathead minnow): 1,250 mg/l Exposure time: 96 hrs Test substance: Product LC50 Inland Silverside: 52.5 mg/l Exposure time: 96 hrs Test substance: Similar (more concentrated) Product NOEC Inland Silverside: 6.25 mg/l Exposure time: 96 hrs Test substance: Similar (more concentrated) Product LC50 Rainbow Trout: 8,800 mg/l Exposure time: 96 hrs Test substance: Similar Product NOEC Rainbow Trout: 3,600 mg/l Exposure time: 96 hrs Test substance: Similar Product
Toxicity to daphnia and other aquatic invertebrates	:	EC50 Ceriodaphnia dubia: 16.3 mg/l Exposure time: 48 hrs Test substance: Product LC50 Ceriodaphnia dubia: 28.2 mg/l Exposure time: 48 hrs Test substance: Product NOEC Ceriodaphnia dubia: 9.4 mg/l Exposure time: 48 hrs Test substance: Product LC50 Daphnia magna: 410 mg/l Exposure time: 48 hrs Test substance: Similar Product EC50 Daphnia magna: 190 mg/l Exposure time: 48 hrs Test substance: Similar Product NOEC Daphnia magna: 80 mg/l Exposure time: 48 hrs Test substance: Similar Product

Components

Toxicity to algae	:	Hydrotreated Light Distillate (petroleum) EC50 : > 1,000 mg/l Exposure time: 72 h

Components

Toxicity to bacteria : Hydrotreated Light Distillate (petroleum)
> 1,000 mg/l
Exposure time: 48 h

Persistence and degradability

Total Organic Carbon (TOC) : 57,660 mg/l

Chemical Oxygen Demand (COD): 76,980 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
	6,100 mg/l	Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.
If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air : <5%
Water : 30 - 50%
Soil : 50 - 70%

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

⚠ **WARNING:** Cancer - www.P65Warnings.ca.gov

Sulfuric Acid	7664-93-9

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Australia. Industrial Chemical (Notification and Assessment) Act

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory
All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)
All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

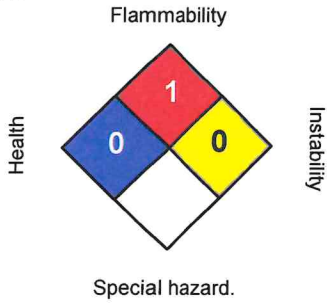
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Taiwan Chemical Substance Inventory
not determined

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date	:	10/23/2019
Version Number	:	1.5
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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NALCO Water
An Ecolab Company

SAFETY DATA SHEET

CAT-FLOC 8108 PLUS

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	CAT-FLOC 8108 PLUS
Other means of identification	:	Not applicable.
Recommended use	:	WATER TREATMENT
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630) 305-1000
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	04/29/2024

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

In case of eye contact	:	Rinse with plenty of water. Get medical attention if symptoms occur.
In case of skin contact	:	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.
If inhaled	:	Get medical attention if symptoms occur.

Protection of first-aiders	:	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Wash hands thoroughly after handling.
Conditions for safe storage	:	Keep out of reach of children. Keep container tightly closed. Store in suitable

labelled containers.

Suitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: HDPE (high density polyethylene), Brass, Neoprene, Buna-N, Polyurethane, PVC, Polypropylene, Polyethylene, Stainless Steel 304, EPDM, 100% phenolic resin liner, Epoxy phenolic resin, Chlorosulfonated polyethylene rubber, Fluoroelastomer
Unsuitable material	:	not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Eye protection	:	Safety glasses
Hand protection	:	Wear protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	:	Wear suitable protective clothing.
Respiratory protection	:	No personal respiratory protective equipment normally required.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Viscous liquid
Colour	:	yellow
Odour	:	odourless
Flash point	:	no data available
pH	:	5.0 - 8.0,(100 %), (25 °C)
Odour Threshold	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	> 100 °C
Evaporation rate	:	no data available

Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	Same as water
Relative density	:	1.018 - 1.058, (25 °C),
Density	:	8.4 - 8.8 lb/gal
Water solubility	:	completely soluble
Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	500 - 3,200 mPa.s (25 °C)
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	:	In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx)

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation, Eye contact, Skin contact, Ingestion

Potential Health Effects

Eyes	:	Health injuries are not known or expected under normal use.
Skin	:	Health injuries are not known or expected under normal use.

Ingestion	:	Health injuries are not known or expected under normal use.
Inhalation	:	Health injuries are not known or expected under normal use.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	:	No symptoms known or expected.
Skin contact	:	No symptoms known or expected.
Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.

Toxicity

Product

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Skin corrosion/irritation	:	Species: Rabbit Result: 1.0 Method: Draize Test Test substance: 40% Active Ingredient
Serious eye damage/eye irritation	:	Species: rabbit Result: 8.0 Method: Draize Test Test substance: 40% Active Ingredient
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

Section: 12. ECOLOGICAL INFORMATION

Toxicity

Environmental Effects	:	Harmful to aquatic life with long lasting effects.

Persistence and degradability

Biodegradability : Result: Poorly biodegradable

The polymer in this product is poorly biodegradable. However, it is rapidly eliminated from the aquatic environment by adsorption onto organic particulate matter and sediment.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.
If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	:	<5%
Water	:	30 - 50%
Soil	:	50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

The hazard characterization is based on the tests or potential hazard in the clean water.

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods	:	Do not contaminate storm water drains, natural waterways or soil with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

On the Korea Existing Chemicals Inventory.

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996,and are listed on or are exempt from the New Zealand Inventory of Chemicals.

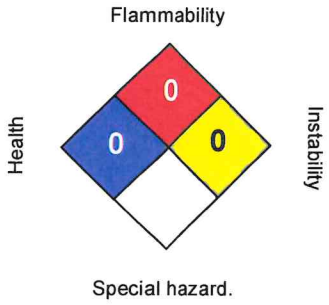
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Taiwan Chemical Substance Inventory
All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date	:	04/29/2024
Version Number	:	1.4
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
For additional copies of an SDS visit www.ecolab.com/sds and request access.

Attachment TR-8

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

Item 4: Outfall/Disposal Method Information Continuation

Outfall Wastestream Contributions

Outfall No. 002

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater Runoff	Variable	Variable

Outfall No. 003

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Stormwater Runoff	Variable	Variable

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

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

Transaction Information

Trace Number: 582EA000628580
Date: 10/09/2024 08:55 AM
Payment Method: CC - Authorization 0000222817
ePay Actor: SCHANNEN WEINMANN
Actor Email: sweinmann@inteplast.com
IP: 208.101.238.152
TCEQ Amount: $1,250.00
Texas.gov Price: $1,278.38*

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

Payment Contact Information

Name: SCHANNEN WEINMANN
Company: INTEPLAST GROUP CORPORATION
Address: 101 INTEPLAST BLVD, LOLITA, TX 77971
Phone: 361-874-3284

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
724753	WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - MAJOR AMENDMENT		$1,200.00
724754	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$1,250.00

ePay Again Exit ePay

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

Shilinga, Cindy

From: Shilinga, Cindy
Sent: Friday, November 1, 2024 11:16 AM
To: Thomas Starr
Cc: Clark, Brenda; Grahmann, Stephen; Shilinga, Cindy
Subject: RE: Inteplast TPDES Wastewater Permit WQ0003477000 Renewal Submittal

I wanted to update you on some additional gaps in sampling that will appear in the application we are submitting today. Including the below sampling mentioned below the following samples will be missing, along with any other gaps discovered as results are received. We will submit updated sampling results once all samples have been collected.

1. temperature,
2. DO,
3. residual chlorine,

Thanks,

Cindy Shilinga
Senior Consultant
Assessment and Permitting

T+ 1 361-484-1675

WSP USA
1501 E Mockingbird Ln Ste 420
Victoria, TX 77904
USA

wsp.com

From: Shilinga, Cindy <Cindy.Shilinga@wsp.com>
Sent: Monday, October 21, 2024 4:11 PM
To: Thomas Starr <Thomas.Starr@Tceq.Texas.Gov>
Cc: Clark, Brenda <brenda.clark@wsp.com>; Shilinga, Cindy <Cindy.Shilinga@wsp.com>; Grahmann, Stephen <stephen.grahmann@wsp.com>
Subject: Inteplast TPDES Wastewater Permit WQ0003477000 Renewal Submittal
Importance: High

Mr. Starr,

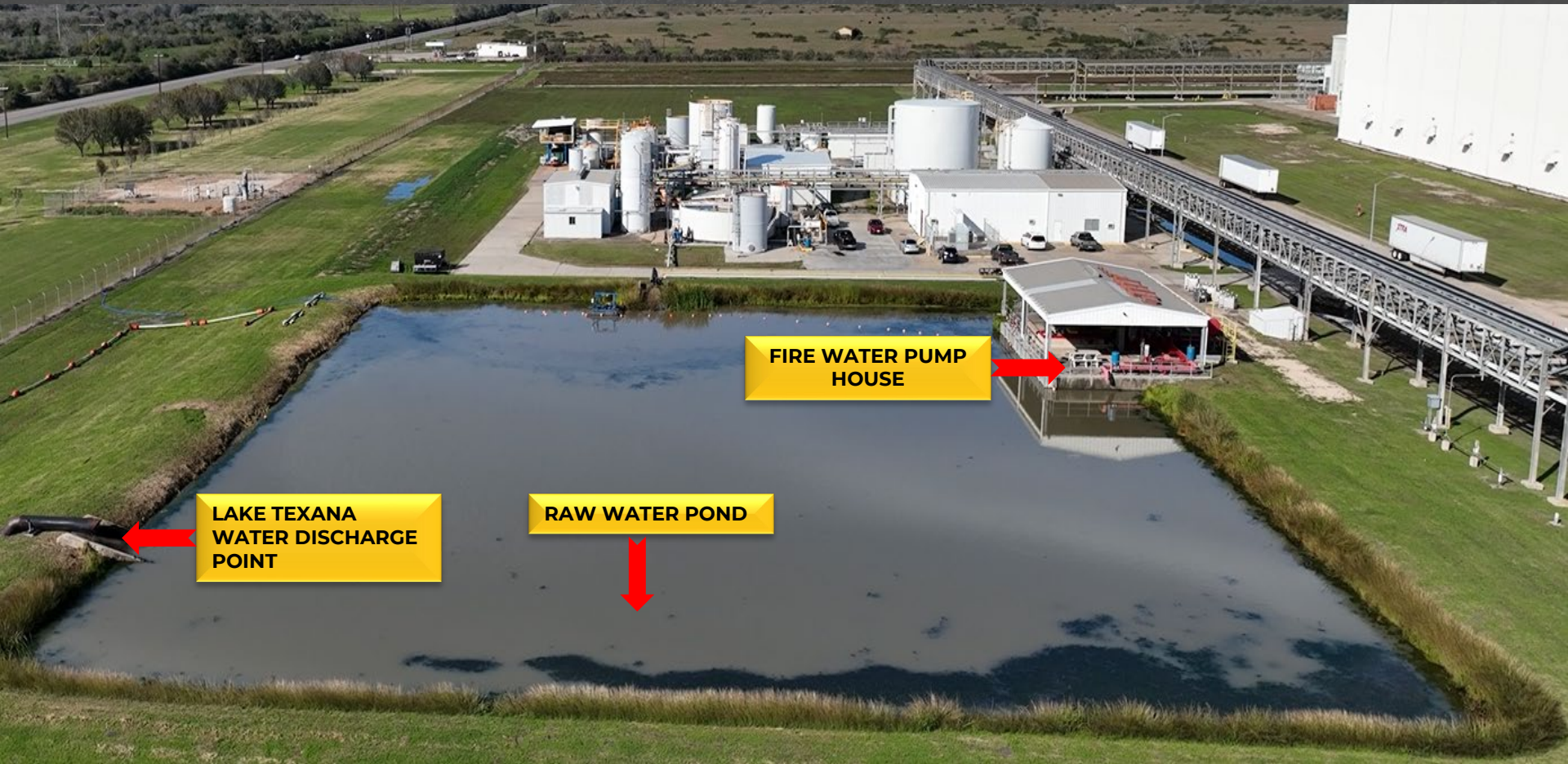
We are in the final stages of completing the permit renewal for Inteplast and wanted to touch base with you on the required sampling status and plan to submit the application next week. The four rounds of required sampling for 001 outfall have been completed and the results are expected to be in later this week. The only exception is that due to the change in Outfall 001 to keep it as a backup outfall instead of removing it, required that Enterococci to be sampled as well as E. Coli. The Enterococci sample currently only has 2 samples taken. The sampling for this will be completed by Oct 31st. In addition, due to no rain in the last 2 months the stormwater samples have not

POUR
Point of Use Resources

Proof of Concept (PoC) of

The Inteplast Utilities Upgrade and Water Reuse Project

Existing Facility Details (Utilities)



Current Flow Diagram (WTP)

Existing Water & Wastewater Treatment Plant – Process Flow Diagram

Lake Texana

Reservoir with Clarifier Feed pump

600 GPM

Clarifier

Clear Well Tank

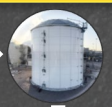
5140gal

Sand Filter Pump

600 GPM 2nos

Sand Filter

600 GPM (Each) 2nos



Industrial Water Tank

Make Up

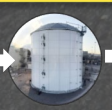
Cooling Tower

Outfall to LAVACA River

Ro Feed Pump

RO 1 – 125 GPM
RO 2 – 100 GPM
RO 3 – 100 GPM

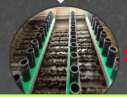
RO Reject to the Feed Pond



Pure Water Tank – 110000 Gallons

Process Plant

To Wastewater Treatment Plant



Sludge Treatment

Sludge Disposal

Biological Wastewater Treatment - 14 GPM

FeCl3

Caustic Soda

Anionic Polymer

Waste Water Treatment Plant

Application

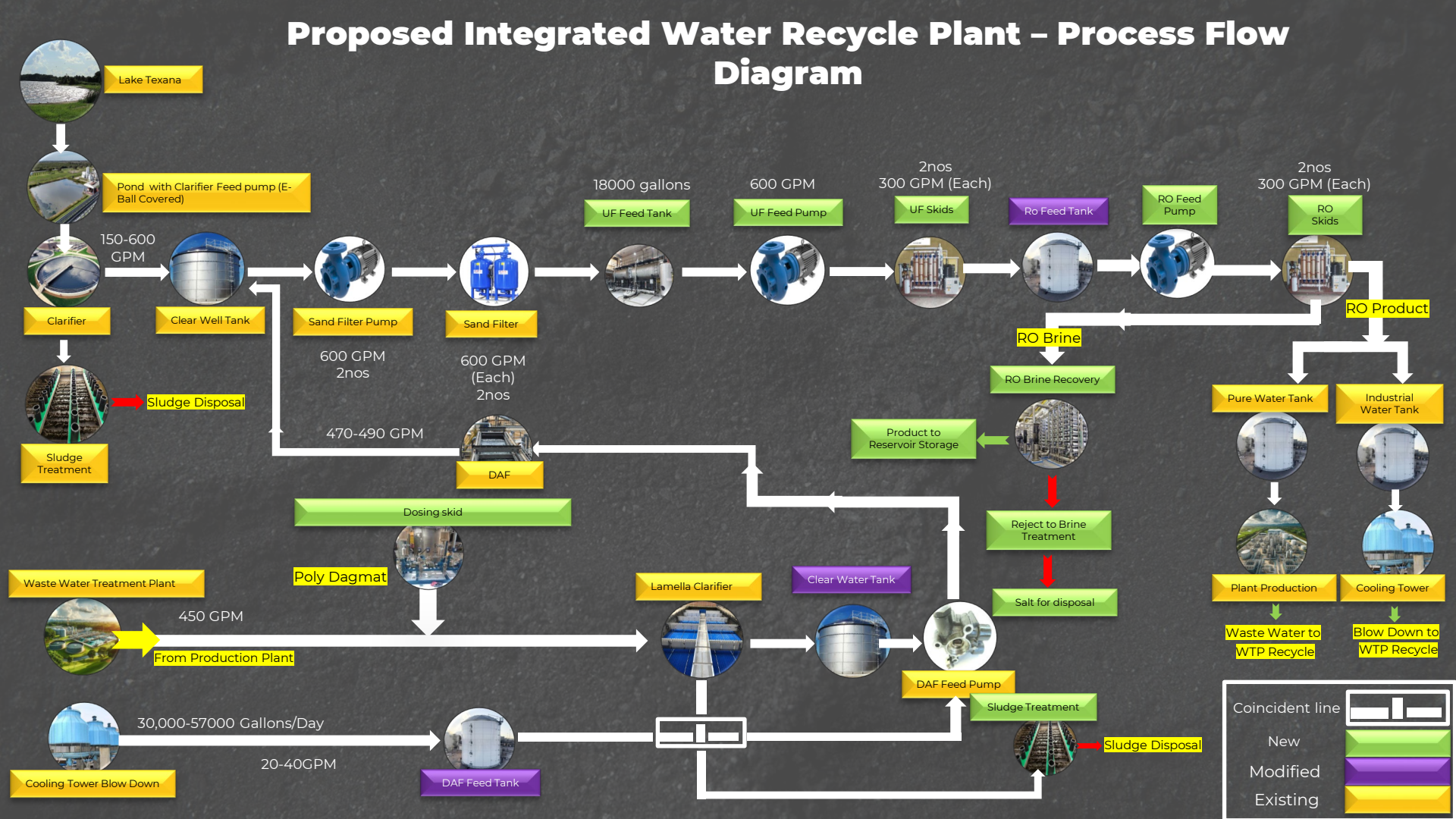
Copper Removal

450 GPM

Lamella Clarifier

Outfall to Lavaca River

Proposed Integrated Water Recycle Plant – Process Flow Diagram



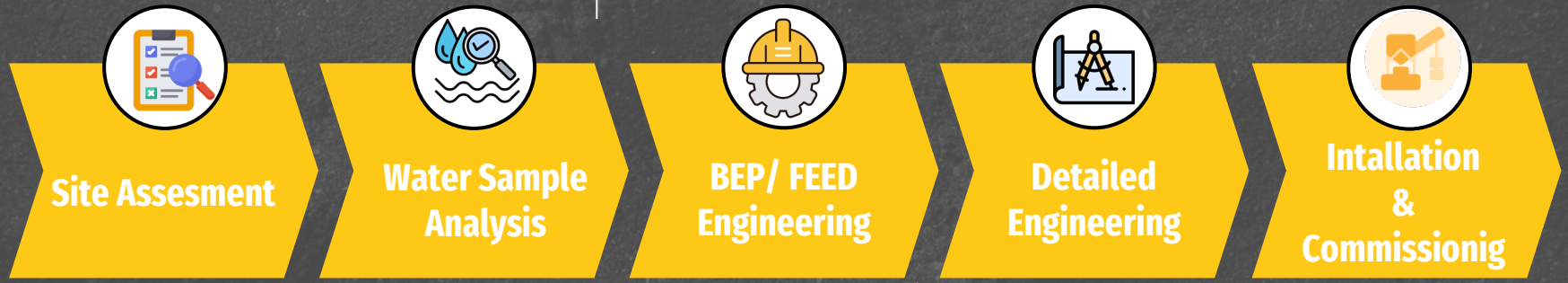
Proposed Storm Water Drainage Network – Process Flow Diagram

Existing Facility Details (Marsh Land)

Road Map of Implementation of Water Resource Re-Use

Time Duration- 3 to 4 weeks

Time Duration- 42 to 48 weeks



Time Duration- 8 to 10 weeks

Modifications to Existing System

1	Current feed water reservoir to be covered with E-Balls to avoid formation of algae. This shall reduce the TSS load on existing clarifier which shall increase the performance efficiency of the raw water clarifier.
2	Cooling tower blowdown water to be diverted from outfall to DAF treatment then be sent to the clear well prior to the UF Skids.
3	Existing Wastewater Treatment Plant final discharge shall be diverted to DAF treatment, combined with cooling tower blowdown, then be sent to the clear well prior to the UF Skids.
4	UF system (feed tank, feed pump and UF skids) to be installed as a pre-treatment for combined RO system to produce high feed water quality to new RO skids
5	Combined RO skids with fouling resistance high rejection membrane to be installed
6	Brine recovery RO to be installed to achieve overall 95% to 98% recovery.
7	Reject from high salt saturated brine from Brine RO recovery skid to be dried in evaporation pond or mechanical evaporator (to be determined during feed study)
8	Storm (Rain) Water Network for whole Industrial production plant area and Utilities area along with rainwater Storage Pond to be constructed. Stored rainwater to be recycled back to raw water pond to feed the Water treatment plant.

Focus of Concept

1	Establishing combined water plant operational management
2	Installation of E-Balls on surface of the raw water pond shall reduce the water evaporation rate up to 80%, which shall have a significant water savings of up to 1.35 Million Gallons of water per year.
3	Water reuse by recycling and treating cooling tower blowdown and industrial process wastewater thus eliminating the current outfall discharge.
4	Reduction in consumption of feed water from Lake Texana which shall have significant water savings of up to 300 to 400 GPM flow. This represents an approximate feedwater reduction of 50%.
5	Minimizing (98% reduction) leading to zero liquid discharge (ZLD) into outfall which shall safeguard Inteplast from any future environmental legal action by external parties.
6	Common RO treated product water for process water and cooling tower make up water. RO treated water for cooling tower make up shall reduce consumption of required cooling tower chemicals significantly (50% consumption reduction of chlorine and 60% consumption reduction of sulfuric acid)
7	Using RO treated water for cooling tower shall increase cycle of concentration up to 10X, which in turn reduce cooling tower blowdown water quantity representing a 50% reduction in water makeup to the cooling towers.
8	Concept of water reuse and recycle shall eliminate the usage of chemicals such as FeCl3, NaOH and Anionic polymer in wastewater treatment plant and these chemicals can be replaced by dosing of single coagulant.
9	Construction of Storm Water Network, Storage of rainwater and reusing the stored water as contingency water shall reduce the consumption of Lake Texana Water.

PROCESS AND NON-PROCESS WASTEWATER FLOWS

According to 40 CFR 463, there are three subcategories of wastewater for Plastics Molding and Forming. As described in Attachment VI, Inteplast treats raw water in order to supply contact and non-contact cooling water to the plant on site.

Process Wastewaters

Contact Cooling Water (Subcategory A)

- 50,000 gpd estimated.
- Closed loop

Cooling Tower Blowdown-

- 324,530 gpd estimated.

Non-Process Wastewaters

Non-Contact Cooling Water from chillers, HVAC, and other equipment-

- closed circuit-should be zero discharge
- variable HVAC condensate to stormwater

Reverse Osmosis Reject and Regeneration Water-

- 9,000 gpd estimated.
- Closed loop-no discharge

RAW MATERIAL .ND PRODUCTS

Raw Materials	Name	CAS Number	Location
Polymers	LDPE Low Density Polyethylene	9002-88-4	Concentrates / XF Film
	HDPE High Density Polyethylene	9002-88-4 / 25087-34-7 / 25213-02-9	Concentrates / other plants
	LLDPE Ethene, Homopolymer	9002-88-4	IBS / other plants
	LLDPE Linear Low Density Polyethylene	9002-88-4	IBS / other plants
	Polypropylene Copolymer	9010-79-1	BOPP / PP Profile
	Polypropylene Homopolymer	9003-07-0	BOPP / PP Profile
	FC55HR Photopolymer Resin Liquid (Benzophenone)	119-61-9	IBS – Plate Room
	Resin Liquid System G125 (Polyurethane-methacrylate mixture)	Mixture	IBS – Plate Room
	Resin Liquid System F6200	Mixture	IBS – Plate Room
	Fortilene Polypropylene Resin #4176	9003-07-0 / 9010-79-1	PP Profile
	Polyethylene 1321 (homopolymer)	9002-88-4	PP Profile
	Polyethylene	25213-02-9	PP Profile / CFP
	PVC (Polyvinyl Chloride) Homopolymer Formolon 614	9002-86-2	PVC
Fillers	Calcium Carbonate	1317-65-3	Concentrates / PVC / IBS
	Hydrated Lime (Calcium Hydroxide)	1305-62-0	Concentrates
Additives	Erucamide or Crodamide ER (Fatty acid primary amides of C_{18} to C_{24})	112-84-5	Concentrates
	Glyceryl Monosterate or ICI Atmer-129	31566-13-1	BOPP
	UV Stabilizer or Tinuvin 783 FB	70624-18-9 / 65447-77-0	Concentrates
	Polyethylene Functional Additive	N/A	Concentrates
	Polybatch UVR –95 1) Hindered Amine Light Stabilizer 2) Calcium Carbonate 3) Crystalline Silica	 70-624-189 1317-65-3 14808-60-7	 BOPP BOPP BOPP
	Oleamide (Crodamide VR) (Fatty acid primary amides of C_{14} to C_{22})	301-02-0	Concentrates
	Paraloid ® K-125 Modifier (Acrylic Polymer)	Trade Secret	PVC
	Paraloid ® K-175 Modifier (Acrylic Polymer)	27136-15-8	PVC
	Paraloid ® K-400 Modifier (Acrylic Polymer)	Trade Secret	PVC
	Polybatch ABPP-027-SC (Stabilizer Concentrate)	N/A*	CFP
	Polybatch ABPP-05-SC	N/A*	CFP

RAW MATERIAL ND PRODUCTS

Raw Materials	Name	CAS Number	Location
Additives (cont.)	Polybatch ABPP-057 (Amorphous Silica)	112926-00-8	CFP
	Polybatch ABVT-18-N (Antiblock Concentrate)	N/A*	CFP
	Polybatch ASA-05-A (Color Concentrate)	N/A*	CFP
	Polybatch FASPS-2950 (Antistat Concentrate)	N/A*	CFP
	Polybatch GSA – 328244 (Slip Antistatic Concentrate)	N/A*	CFP
	Polybatch GSA – 32828 (Slip Antistatic Concentrate)	N/A*	CFP
	Polybatch GSA – 482 (Slip Antistatic Concentrate)	N/A*	CFP
	Polybatch GSA – 862 C (Slip Antistatic Concentrate)	N/A*	CFP
	Polybatch IL – 2580-SC (Slip Concentrate)	N/A*	CFP
	Polybatch SPER – 6 (Slip Concentrate)	N/A*	CFP
	*** This product does not contain chemicals that are considered hazardous under 29CFR 1910.1200.**		

Pigments	Examples:		
	Titanium Dioxide / Aluminum Hydroxide	13463-67-7 21645-51-2	PVC / Concentrates
	Zinc Stearate (Zinc salt of stearic acid)	557-05-1	Concentrates / PVC

Printing inks	Examples:		
	LO VOC Aquafilm P-348 Green, P-109 Yellow, Black, P-185 Red (Ammonium Hydroxide)	1336-21-6	IBS / XF / PP Profile
	Poly Aqua Red, Poly Aqua Green	1336-21-6	IBS / ITCL
	Poly Aqua Black (Copper / Zinc)	147-14-8 / 7440-66-6	IBS / ITCL

General Chemicals, Filter Aid for Alar System and Cleaner	F-201 Water Purifying Chemical (Mixed Iron Salts / Residual Sulfuric Acid)	100-28-22-5 / 7664-93-9	Concentrates / IBS
	FA-140-F Water Purifying Chemical / Diatomaceous Earth / Silica)	68855-54-9 14464-46-1	Concentrates / IBS
	Hydrated Lime	1305-62-0	Concentrates / IBS
	DLF-B (Film Processing Liquid Fixer – Hardener)	7732-18-5 / 7446-70-0 / 64-19-7	IBS / Film Processing

RAW MATERIAL .ND PRODUCTS

Raw Materials	Name	CAS Number	Location
General Chemicals, Filter Aid for Alar System and Cleaner (cont.)	DXRE-531-B CUFD-B (water, diethanolamine, …)	7732-18-5 / 111-42-2	IBS / Film Processing
	Defoamer SYS-W-6200 Silicone Emulsion	N/A	IBS / Plate Processing
	Detergent Solution System EP-D-1695 (Alkyl sulfate, sodium salt)	Proprietary	IBS / Plate Processing
	Capping Resin	N/A	IBS / Plate Processing
	Finishing Treatment System-X-3000	N/A	IBS / Plate Processing
	Ammonium Hydroxide	1336-21-6	IBS / PP Profile / XF Film
	CUFD-A (Film Processing Fast Access Developer)	7732-18-5 / 10117-38-1	IBS / PP Profile / XF Film
	DLF-A (Film Processing Liquid Fixer)	7732-18-5 / 7783-18-8, …)	IBS / PP Profile / XF Film
	TEX-Lox 4296 Anilox Cleaner (Ethanolamine)	141-43-5	XF Film
	CR-1 Anilox Roller Cleaner	7732-18-5	XF Film
	EZE-581 Sodium Hydroxide Cleaner 1) Sodium Hydroxide 2) 2-Butoxyethanol 3) Cyclohexanol	 1310-73-2 111-76-2 108-93-0	PP Profile
	DA-49397 Plate Wash (Proprietary Solvent Blend)	N/A	IBS / ITCL
	Ammonium Chloride	12125-02-9	XF Film

Products	Name	CAS Number	Location
Products	Biaxially Oriented Polypropylene (BOPP) Film	Note: Since Products are mixtures, they have no CAS numbers.	
	Polyethylene Trash Bags		
	Polyethylene Produce Bags		
	Polyethylene T-shirt Bags		
	Polyethylene Merchandise Bags		
	Cast Polypropylene Film		
	X-F (Cross-laminated) Film		
	Polypropylene Corrugated Board		
	Polyvinyl Chloride Sheets		

FACILITY AND PROCESS DESCRIPTIONS

1.0 INTEPLAST GROUP, LTD. (Inteplast)

1.1 INTRODUCTION

Inteplast Group, Ltd. consists of three divisions: AMTOPP (AMTOPP), Integrated Bagging Systems (IBS) and World-Pak (World-Pak). Inteplast owns and operates the following plants at the Lolita, Jackson County, Texas site:

1. AMTOPP
   a. Biaxially Oriented Polypropylene (BOPP I)
   b. BOPP II
   c. Cast Film Plant (CFP)
   d. Utilities
   e. Concentrates

2. IBS
   a. IBS
   b. Post Consumer Recycling (PCR)

3. World-Pak
   a. Polypropylene (PP) Profile
   b. XF-Film
   c. Polyvinyl Chloride (PVC)

These plants employ approximately 2,000 people, 60% of which are on-site concurrently. Inteplast has registered with state and federal agencies concerning solid waste generation:

TNRCC Solid Waste Registration No. 23687
EPA ID No. TXO000895417

Wastewater from all plants is treated and/or managed by Inteplast Utilities. There are some exceptions and these are discussed in Section 2.2. The following is a description of the facilities and processes of each plant.

2.0 WATER SOURCES AND SYSTEMS

2.1 INTEPLAST UTILITIES

2.1.1 INTRODUCTION

Inteplast utilizes two sources of water. Water from two on-site wells is treated to produce potable water. This drinking water system is registered with the TNRCC (#1200031). Raw water from Lake Texana is treated to produce "industrial water" and "pure water." Industrial water is used primarily as cooling water and pure water is used as chiller water and as the source of contact cooling water.

2.1.2 INDUSTRIAL WATER

Raw water from Lake Texana is treated by a clarifier and a multi-media sand filter to produce industrial water. Industrial water can be routed to the various cooling towers as makeup water, to the Reverse Osmosis (R.O.) unit.

2.1.3 PURE (DEIONIZED) WATER

Industrial water is routed through the R.O. units to produce deionized water (pure water) for use in the chiller systems, reclaim systems, and the production lines of various plants. Deionized water is used as contact cooling water, as ink wash water, and as make-up water for the chillers. There are a total of two R.O. units. Two units are in service simultaneously.

2.1.4 COOLING TOWERS

Inteplast Utilities manages four cooling towers, which are located throughout the site. A cooling tower may be shared by more than one plant:

1) IBS
2) XF-Film, PP Profile
3) PVC, Concentrates
4) BOPP I, BOPP II, CFP

Industrial water is used as the source of cooling tower make-up water. The chemicals used as corrosion and scale inhibitors and biocides in the cooling towers are discussed in Attachment XII.

2.1.5 CHILL WATER SYSTEM

Pure water is used as the make-up source for the chill water system. This is a closed loop system of non-contact cooling water.

2.2 WASTEWATER SOURCES

2.2.1 SANITARY TREATMENT PLANT

The sanitary wastewater treatment facility is a package plant with a design flow of 80,000 gallons per day (gpd) and a peak maximum flow of 120,000 gpd.

2.2.2 COOLING TOWER BLOWDOWN

Cooling towers are blown down on an as-needed basis. Currently the Daily Average blow down is 50,516 gpd and the Daily Maximum is 128,000 gpd.

2.2.3 CONTACT COOLING WATER

Contact cooling water is generated in the extrusion and reclaim sections of various plants (see Sections 3.0-10.0). This wastewater is either discharged through Outfall 001 or is recycled in the respective plants. If the wastewater quality is not acceptable for discharge through Outfall 001, the material will be shipped off-site for disposal at an approved site.

2.2.4 NONCONTACT COOLING WATER

PVC uses approximately 10,000 gpd of noncontact cooling water (industrial water) in the vacuum pump system. This water is recycled in the system and is discharged to Outfall 001 on an as-needed basis. If noncontact cooling water quality is not acceptable for discharge through Outfall 001, the material will be shipped off-site for disposal at an approved site.

2.2.5 R.O. UNIT WASTEWATER

The R.O. units operated by Inteplast Utilities produce a "reject" or concentrate wastewater stream. Although Inteplast is permitted to discharge R.O. wastewater through Outfall 001, this wastewater stream is currently recycled back to the raw water pond.

2.2.6 COMBINED WASTEWATERS

Contact cooling water, noncontact cooling water, cooling tower blowdown, and R.O. wastewaters are pH adjusted prior to discharge. Currently, contact cooling water, noncontact cooling water, cooling tower blowdown, and treated effluent from the sanitary treatment plant are combined in the Blow Down Water (BDW) Tank prior to discharge through Outfall 001.

2.2.7 ALAR SYSTEMS

Both IBS and Concentrates have Alar wastewater treatment systems for the removal of solids. IBS uses an Alar system for the removal of ink solids from ink wastewater generated in IBS, XF-Film, and PP Profile. Approximately 2,000 gallons of ink wastewater are treated daily. Water from this system is 100% recycled in the IBS plant. If the treated water is not acceptable for reuse, the wastewater is shipped off-site for disposal.

The Concentrates plant also uses an Alar system for the removal of solids. Water from this system is 100% recycled in the Concentrates plant.

2.2.8 SILVER RECOVERY / PHOTOPOLYMER SYSTEMS

In IBS approximately 2,500 gallons per month of wastewater are generated from the Silver Recovery Unit and the Photopolymer Plate-Making System in the Art and Plate Department. This wastewater is shipped off-site to the Gruene Environmental for disposal.

2.2.9 STORMWATER RUNOFF

Stormwater runoff, raw water from the fire water system, and air conditioning condensate are discharged through Outfalls 002 and 003.

3.0 BIAXIALLY ORIENTED POLYPROPYLENE (BOPP)

3.1 INTRODUCTION

The BOPP I plant will produce approximately 55,000 Metric Tons per Year (MT/YR) of polypropylene film. The BOPP II plant will produce approximately 29,500 MT/YR of polypropylene film. BOPP film is a high strength plastic film with excellent appearance and, combined with its low water vapor and oxygen permeability, make it a preferred film for many packaging applications.

The cast-tenter method of manufacturing BOPP film is used. With the cast-tenter method, molten polypropylene resin is extruded from a flat die head into a thick film and chilled. It is stretched lengthwise in the machine direction and then heated in a tenter frame and stretched crosswise in the transverse direction.

3.2 PROCESS DESCRIPTION

Polypropylene homopolymer and polypropylene copolymer pellets are air-conveyed from the storage silos to feed hoppers. The resins are each transported into a drying hopper. After the drying hopper, the resins are sent to separate blending elements where they are mixed with masterbatch pellets containing chemical additives. The chemical additives are blended with the polypropylene as a masterbatch or on a metered basis for a different formula.

Homopolymer-base blended material is fed into the main screw extruder while the copolymer-base blended material and reground recycled film are fed into satellite screw extruders. In the extruders the plastic and additives blend are agglomerated and heated into a polypropylene melt. Polymer melt from the extruders is fed into a block die head in which a three-layer sheet of plastic film is formed.

As the plastic film leaves the die head, it enters a casting and quenching unit. Here a chill roll while simultaneously submerged into a water bath cools the plastic. Through the chill roll, heat is removed by conduction. The water inside the chill roll never contacts the plastic. This water is recycled through the chiller. The water in the water bath, meanwhile, contacts the plastic directly as the plastic is submerged into the water bath. The water bath level is maintained by replacing the evaporated amount of water.

As the plastic film leaves the chill roll, a light to ensure that this molten web is of the proper thickness scans it. The molten web is pulled in both longitudinal and transverse directions in the Machine Direction Orientation unit, (MDO unit) and in the Transverse Direction Orientation & Oven Unit (TDO unit), respectively. This orientation process is necessary to achieve the final strength and thickness of the molten web. The molten web is chilled before the orientation process and then heated and chilled during the orientation process to heat set the film into its final form.

At the end of the orientation section, the film is light scanned to check for the proper film thickness. The final film is then trimmed and wound onto a customer roll. The eight meter wide customer roll may be cut to smaller lengths and an aluminum coating can also be added to the plastic (in the metallizer section) – depending on customer specifications. The customer rolls are then packaged for shipping.

3.3 WASTEWATER

Currently BOPP I generates approximately 55 gallons per minute (gpm) of contact cooling water, which is discharged through Outfall 001. BOPP II generates approximately 25 gpm of contact cooling water, which is discharged through Outfall 001. However, both plants are in the process of reducing their discharge amounts by recycling the contact cooling water in their respective plants.

4.0 Stretch Film (CFP)

4.1 INTRODUCTION

This plant will produce approximately 68,000 metric tons per year of stretch film. The stretch film will have three production lines. Each production line will have three extruders, which will manufacture a multi-layer film. Stretch film is used as an excellent packing material. Stretch film provides superior toughness; tear resistance and excellent cling for pallet loads and other packaging applications.

4.2 PROCESS DESCRIPTION

There are ten stretch casting film production lines. Three different types of LLD PE resins will be stored in silos for the manufacturer of stretch film. These types will be butene, hexane and octane LLDPE copolymers. Each copolymer will be blended with UV stabilizer and titanium oxide, and fed into one of the three or more extruders in the machine line. The extruders will agglomerate the resins. The resins will feed through a flat T die head and form a multi-layer film. The three-layer film then passes through a set of chill rolls. The chill rolls cool the plastic by passing non-contact chill water inside the chill roll. After the chill roll, the plastic sheet is slit into two sheets by a knife located near the middle of the sheet. The sheet width is cut according to customer specifications. The sheets are rolled onto two winders. The rolls from the winders are placed on a pallet. The pallet is transported to a warehouse automated handling system for storage or shipping.

4.3 WASTEWATER

Currently 100% of contact cooling water in CFP is recycled within the plant.

4.4 NONCONTACT COOLING WATER

Currently CFP generates a noncontact cooling water from the Beringer oven system. This water does not come into contact with the plastic product. This wastewater is currently sent off-site for disposal.

5.0 INTEGRATED BAGGING SYSTEMS (IBS)

5.1 INTRODUCTION

This facility is a 141,197 Metric Ton Per Year (MT/YR) Bag Plant. IBS consists of four different units each producing the following types and quantities of bags:

1)	Trash Can Liners:	75,906 MT/YR
2)	Produce Bags:	24,091 MT/YR
3)	T-Shirt Bags:	29,556 MT/YR
4)	Merchandise Bags:	11,644 MT/YR

5.2 PROCESS DESCRIPTION

The following describes the T-Shirt Bag Process; the other bag processes are similar. High Density Polyethylene (HDPE) and Linear Low Density Polyethylene (LLDPE) pellets are air-conveyed from storage silos to feed hoppers. From the feed hoppers the resin pellets are conveyed to a blender. In the blender reground recycled bags, a very small amount of titanium dioxide (TiO_2), and color pigments are added. The materials are mixed in the blender to make a homogeneous, blended powder. From the blender the resin mix is air-conveyed to the extruder hopper.

From the hopper the materials are metered into screw extruders. In the extruders the resin mix is agglomerated into a polyethylene melt by the movement, and consequent heat and pressure, produced by the screw. This melt is then forced through a die by the action of the screw and into a Blown Film Machine. In this machine the film is simultaneously radially and axially drawn into a tube by blowing air through it. Simultaneously, the tube is cooled by an annulus of high velocity air created by an air ring on the outside and drawn vertically upward through a collapsed frame by a primary nip assembly located at the top of the tower. The primary nip assembly consists of a series of rollers. Some of the rollers will have cooling water running through them. The heat transferred through the rollers cools the hot collapsed plastic tube. It should be noted that the cooling water does not directly contact the collapsed plastic tube. The collapsed tube is then passed through additional metal rollers, which electrically treat it to remove the slickness and prepare it for printing. The collapsed tube, which has now been processed to a film, is then wound up on a big roll.

Next, the film is taken off the Film Winder and placed on the Film Unwinder for printing. The printer utilizes the flexographic process. In this process ink is picked up on the raised portions of a polymer plate mounted on a metal cylinder and transferred to the plastic film.

The printed film then goes through a gas fired drying oven to dry the ink. Passing through printer chill rolls utilizing cooling water then cools the printed film.

The film then passes through a machine, which reblows the film to a collapsed tube and cuts the tube into narrow strips and seals the ends. In the Slit Seal Machine there is a copper tube with cooling water running through it to cool the film. A gusset (or triangular diamond) is cut into the bag so that the bag will have a flat bottom when opened. It then goes through a bag machine, which uses a metal stamp to stamp out the desired bag size. The Bag Machine will have a seal bar and a cooling bar with chilled water running through it. The bags are then conveyed out to a packer and put into a box for shipping. Non-usable or off-spec film is recycled back to the hopper.

Excess bag trim from the Bag Machine and non-usable or off-spec film is conveyed to a milling unit and converted to mill scrap and subsequently recycled to the hopper where it is extruded.

5.3 WASTEWATER

Currently 100% of contact cooling water and 100% of Alar effluent are recycled in IBS. Approximately 2,500 gallons per month of wastewater generated in the Silver Recovery and Photopolymer Plate-Making System are shipped off-site to the Gruene Environmental for disposal.

6.0 PROFILE

6.1 INTRODUCTION

This plant will produce approximately 22,000 MT/YR of polypropylene corrugated sheet. There will be 12 lines producing corrugated sheet. As a consumer product, Profile corrugated sheet can be used as a replacement for cardboard. Corrugated sheet has exceptional features such a impermeability, stiffness, rigidity, low specific gravity, abrasion and tearing resistance, resistance to oils, greases, mildew, and most chemical products; it is odorless and is suitable for printing.

6.2 PROCESS DESCRIPTION

Polypropylene resin stored in silos will be pneumatically conveyed from the silos to hopper feeders. The polypropylene pellets are blended with a polypropylene masterbatch (polypropylene and color pigment mix) in the hopper feeders. The blend is fed into the screw of the extruder. The material in the extruder is agglomerated and heated into a polypropylene melt. The melt from the extruder is fed into a die head which manufactures the melt into a monoblock with a corrugated profile nad. The monoblock comes out of the extruder as a continuous sheet at approximately 80 inches wide and 3/8 inch in height (thickness).

Once the polypropylene corrugated sheet leaves the die head, it then goes through a vacuum calibrator where simultaneous calibrating of the sheet thickness occurs in all of the upper and lower sections. The sheet is also cooled by non-contact chill water cycling through the vacuum calibrator. The sheet is then heated and air cooled in an infrared oven to remove all the stress out of the sheet. It then goes through a Corona treater where the treater applies an electrical charge on the surface to make it rough enough to adhere printing ink. The corrugated sheet is then air cooled to room temperature.

The corrugated sheet is conveyed through a grinding mill where the edges are trimmed for final product dimensions. The trimmed scrap material is recycled back to the extruder hopper. The length of the sheet is then cut to customer specifications by a guillotine. The finished board then goes through an automatic sheet stacker and is packaged.

6.3 WASTEWATER

Currently 100% of contact cooling water is recycled within the plant. All ink wastewater generated in PP Profile is treated in the Alar system located in the IBS plant and disposed of with Gruene Envrionnmental.

7.0 XF-FILM PLANT

7.1 INTRODUCTION

This project consists of a 76,800 MT/YR XF-Film Plant. XF-Film is an extremely versatile, strong, lightweight plastic material. It is used for truck covers, wagon covers, monsoon shed covers, furniture packing, etc.

7.2 PROCESS DESCRIPTION

This process uses the co-extrusion process. The main resin materials used are high-density polyethylene (HDPE), linear low-density polyethylene (LLDPE), and reground recycled XF-Film. In this process separate extruders are used to segregate the three resin blends (HDPE, LLDPE, recycled film). The extruders are adapted to force the plastic melt through one die. The extrusion process is described below for HDPE. The extrusion processes for LLDPE, and recycled reground film are the same except that these materials are used in place of HDPE. (This is noted by using parenthesis as shown below.)

HDPE (LLDPE, reground recycled film) pellets are air-conveyed from a storage silo to feed hoppers. From the feed hoppers the resin pellets are conveyed to a blender. In the blender very small percentage amounts of additives are added. These additives include the pigment titanium dioxide (TiO_2), a UV Stabilizer, and an Impact Modifier. The materials are mixed in the blender to make a homogeneous, dry mixture. From the blenders the resin mix is air conveyed to the hoppers of the extruder. From the hopper the resin mix is metered into a screw extruder. In the extruder, the resin mix is agglomerated into a polyethylene melt by the movement and consequent heat and pressure produced by the screw.

7.3 WASTEWATER

Approximately 100 gpd of contact cooling water is discharged through Outfall 001. All ink wastewater generated in XF-Film is treated in the Alar system located in the IBS plant.

8.0 Building Products-POLYVINYL CHLORIDE (PVC) SHEET PROCESS

8.1 PROCESS DESCRIPTION

The PVC sheet process starts with the receipt of resin by rail car or truck. PVC powder is unloaded from the rail car or truck by a vacuum unit into a vacuum receiver tank. The resin is fed from the vacuum feeder into the discharge line by a rotary feeder and is moved to the silos for storage by a pressure air blower.

The resin is then moved by a pressure or vacuum system to the weigh area and added to other processing ingredients. The additives and resin are blended together in a blender to produce a PVC blend for the sheet process.

The material is discharged from the mixer into a silo; from the silo the material is transferred into the extruder hopper. PVC blend feeds from the holding hopper to the extruder. As the PVC blend processes through the extruder, a homogeneous melt is produced. The material processed as a melt within the extruder is formed by the die head in such a manner that it leaves the die as a plastic with uniform thickness.

Passing through polishing rollers, which also cool the material, polishes the surfaces of the plastic. The three steel rollers arranged one above the other are polished and hard-chromium coated. Their temperatures are controlled, dependent on the melt temperature, by closed circulation of water or oil.

After the sheet leaves the polishing roller, it passes over further equipment for cooling during which it is cooled to ambient temperature by free circulation of the surrounding air. The sheet is supported on a smooth, free rotating conveyor, which is several meters in length. The length of the post-cooling path is dependent on the product, the extruder throughput, and the residual heat to be removed.

A take-off machine with two rollers is used to convey the sheet from the polishing stack to the discharge point. A roller table is attached on the outgoing side of the take-off unit so that the sheet is supported during its passage to the transverse
cutting machine. Circular saw units, located before and after the take-off machine, are used to cut sheet widths and are used for edge trimming and multi-slitting of products in all thicknesses and at all speeds.

After the sheet is trimmed, it enters the traveling saw where the transverse cutting of the sheet to size is accomplished. During the transverse cutting operation, the circular saw carriage is moved in the direction of extrusion at a speed synchronized with the production speed.

Once the sheets have been cut to length, they are stacked in the collection position by the automatic stacker. The suction head sheet stacker removes the sheets from the discharge table and stacks in the direction of extrusion for removal to storage.

8.2 WASTEWATER

Currently PVC uses approximately 10,000 gpd of noncontact cooling water in the vacuum pump system. This water is recycled in the system and is discharged to Outfall 001 on an as-needed basis.

9.0 CONCENTRATES
(Previously known at World-Pak Concentrates or Masterbatch)

9.1 INTRODUCTION

Concentrates will produce approximately 9,000-18,000 MT/YR of Color Masterbatch or Additive Masterbatch. Both Color Masterbatch and Additive Masterbatch are manufactured from a polyolefin resin base with the addition of powdered pigment or additive to form the desired product.

9.2 PROCESS DESCRIPTION

The silo area consists of four 200 MT silos for storage of virgin material. Once the formulation is set, material is conveyed to the proper feeder of the machine. The number of feeders used at each machine is dependent upon the formulation and the number of ingredients. From the feeder the material is conveyed by belt feeder to the Hopper Section of the Mixer. At this point the material is heated and mixed until it reaches a molten stage. This is a continuous process and once the material has reached the molten stage, it flows by gravity to the extruder. The molten material from the extruder is fed through a die where the material is pelletized or cut into small pellets and conveyed by water to a dryer. From the dryer the material is conveyed to the classifier, which separates the fines and larger pieces. The product is then gravity fed into boxes for packaging.

9.3 WASTEWATER

All wastewater from the Concentrates plant is 100% recycled within the plant.

10.0 POST CONSUMER RECYCLING (PCR)

10.1 PROCESS DESCRIPTION

Due to changes in the industry, PCR has been repurposed into a palletizing warehouse.

All equipment, including any copper and zinc removal systems have been removed from the building. It is strictly a warehouse.

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: **Inteplast Group Corporation**

   Permit No. WQ00 **03477000** EPA ID No. TX TX0108405

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

   101 Inteplast Blvd, Lolita, TX 77971

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: Dan Martino

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

Title: Vice President, Administration

Mailing Address: 101 Inteplast Blvd, PO Box 405

City, State, Zip Code: Lolita, TX 77971

Phone No.: 361-874-3144 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: dmartino@inteplast.com

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

N/A

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

Outfall 001 process wastewater discharge from the site's wastewater plant through a pipe to the Lavaca River which goes into segment 1601. Outfall 002/003 stormwater discharge and future Outfall 001B process wastewater from the site via open ditch system to Cox Creek which then flows to Cox Lake segment 2454A.

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

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

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

☐ Proposed access roads, utility lines, construction easements

☐ Visual effects that could damage or detract from a historic property's integrity

☐ Vibration effects during construction or as a result of project design

☐ Additional phases of development that are planned for the future

☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

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

Installing approximately less than 1 mile of underground wastewater line buried approximately 4ft in depth. The proposed pipe will run from the current wastewater treatment plant to a drainage ditch located on the North side of the property. Additional past the Outfall 003 structure some upgrades will occur in order to install the new Outfall 001B discharge pipe.

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

N/A

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:

All buildings built in 1992/1993 except for BOPP II-1995.

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

The site was built in 1992 at a greenfield site.

been collected. Once a storm event occurs then these samples will be collected. Once all sample results have been received, we will submit an amendment to the technical application.

We also plan to submit the application via STEER's account but have been unable to receive additional guidance on this process. We have left multiple messages and emails to the STEER's team without any response. Can you provide the steps we need to take to properly set up our STEERS accounts to submit all information for the renewal? At this time there is not a TPDES category to select. Also, we wanted to verify that uploading the information for the adjacent landowners in a label word doc is sufficient since we will not be able to provide the actual labels.

Thanks,

Cindy Shilinga
Senior Consultant
Assessment and Permitting

T+ 1 361-484-1675

WSP USA
1501 E Mockingbird Ln Ste 420
Victoria, TX 77904
USA

wsp.com

Attachment TR-16 Contract Laboratory

The following Pace Lab locations have been contracted out to do the following analysis:

1. Pace National (PAN): 12065 Lebanon Road; Mt. Juliet, TX 37122 (Metals, Organics)
2. Pace Allen, TX: 400 W. Bethany Dr. Suite 190; Allen, TX 75013 (Wet Chemistry)
3. Pace Green Bay, WI: 1241 Bellevue St. Suite 9; Green Bay, WI 54302 (LL Hg)
4. Pace Victoria: 1606 E. Brazos St. Suite D, Victoria TX 77901 (Ran e. coli and entero)

The accreditations for the lab are as follows:

1. PAN: T104704245-20-18
2. Allen: T104704232-23-39
3. Green Bay: T104704529-21-8
4. Victoria: T104704328

Contact for Pace Labs:

Lori Vahrenkamp

Project Manager II | National
1606 E. Brazos St. Ste D | Victoria, TX 77901

Direct: 361.446.0565

lori.vahrenkamp@pacelabs.com

pacelabs.com

FLOW SCHEMATIC / WATER BALANCE

INTEPLAST GROUP