# Administrative Package Cover Page

**This file contains the following documents:**

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

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# Portada de Paquete Administrativo

**Este archivo contiene los siguientes documentos:**

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

## Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

**ENGLISH TEMPLATE FOR TPDES RENEWAL WITH AMENDMENT APPLICATIONS FOR INDUSTRIAL WASTEWATER**

Deer Park Refining Limited Partnership (CN602641664) operates Deer Park Refining (RN111372785), a Petroleum Refinery. The facility is located at 5900 Deer Park, in Deer Park, Harris County, Texas 77536. This is an application for a renewal with amendment to authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108; authorize the discharge of non-process wastewaters from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108; authorize the discharge of ballast water from Outfall 008 and internal Outfall 108; reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010; add new internal Outfall 208 to monitor the discharge of refinery process wastewaters from system upsets during extreme precipitation events before discharge via Outfall 008; revise Technology-Based Effluent Limits at Outfall 007; include a second phase for Outfall 007 for a future increase in production capacity and revise the TBELs at Outfall 007 accordingly; allow the use of algicide treatment in the ditch that flows to Outfall 008; include a definition of utility wastewaters; revise Other Requirement No. 10.A language for clarity and consistency; remove Outfall 001 from the permit; remove internal Outfall 207; and remove waste streams and associated effluent limitations from Outfall 007.

Discharges from the facility are expected to contain total organic carbon; oil and grease; mercury; copper (total); biological oxygen demand (5-day); total suspended solids; phenols; ammonia; sulfide; chromium (total); chromium (hexavalent); Enterococci; nitrogen (total); phosphorus (total); nickel (total); acenaphthene; dioxins and furans (TCDD); total petroleum hydrocarbons; benzene; total BTEX; lead (total); and pH.. Stormwater, non-process wastewater, hydrostatic test water from vessels that previously contained hydrocarbons, and firewater are treated in onsite ponds for settling of solids and discharged via Outfalls 002, 003, 004, 006 and 009. Process wastewater, non-process wastewater, domestic wastewater, ballast water, landfill leachate, and stormwater are treated by the North Effluent Treatment System which consists of primary treatment with dissolved nitrogen flotation and wet surface air cooler; biological treatment with aeration basins and clarifiers; and tertiary treatment from sand filters before discharged via Outfall 007. Contaminated stormwater, stormwater, non-process wastewater, hydrostatic test water from vessels that previously contained hydrocarbons, and firewater are routed to a series of ponds before discharge via Outfalls 008 and 010.

**PLANTILLA EN ESPAÑOL PARA SOLICITUDES RENOVACIONES CON ENMIENDAS DE TPDES PARA AGUAS RESIDUALES INDUSTRIALES**

Deer Park Refining Limited Partnership (CN602641664) opera Deer Park Refining (RN111372785), una refinería de petróleo. La instalación está ubicada en 5900 Deer Park, en Deer Park, Condado de Harris, Texas 77536. Esta es una solicitud de renovación con enmienda para autorizar la descarga de agua de prueba hidrostática de embarcaciones previamente en servicio de hidrocarburos desde los Emisarios 002, 003, 004, 006, 008, 009 y el Emisario interno 108; autorizar la descarga de aguas residuales no de proceso de los Emisarios 004, 006, 008, 009, 010 y del Emisario interno 108; autorizar la descarga de agua de lastre del Emisario 008 y Emisario interno 108; reducir la frecuencia de monitoreo de las limitaciones de efluentes y los requisitos de monitoreo en los Emisarios 002, 003, 003, 004, 006, 007, 107, 008, 009 y 010; agregar un nuevo Emisario interno 208 para monitorear la descarga de aguas residuales de procesos de refinería debido a alteraciones del sistema durante eventos de precipitación extrema antes de la descarga a través del Emisario 008; revisar los límites de efluentes basados en tecnología en el emisario 007; incluir una segunda fase para el Emisario 007 para un aumento futuro en la capacidad de producción y revisar los TBEL en el Emisario 007 en consecuencia; permitir el uso de tratamiento alguicida en el dique que desemboca al Emisario 008; incluir una definición de aguas residuales de servicios públicos; revisar el Otro Requisito No. 10. Un lenguaje para mayor claridad y coherencia; eliminar el Emisario 001 del permiso; eliminar el emisario interno 207; y eliminar los flujos de desechos y las limitaciones de efluentes asociados del Emisario 007.

Se espera que las descargas de la instalación contengan carbono orgánico total; aceite y grasa; mercurio; cobre (total); demanda biológica de oxígeno (5 días); sólidos suspendidos totales; fenoles; amoníaco; sulfuro; cromo (total); cromo (hexavalente); enterococos; nitrógeno (total); fósforo (total); níquel (total); acenafteno; dioxinas y furanos (TCDD); hidrocarburos totales del petróleo; benceno; BTEX totales; plomo (total); y pH. Las aguas pluviales, las aguas residuales que no son de proceso, el agua de prueba hidrostática de embarcaciones que anteriormente contenían hidrocarburos y el agua contra incendios se tratan en estanques en el sitio para la sedimentación de sólidos y se descargan a través de los emisarios 002, 003, 004, 006 y 009. Las aguas residuales de proceso, las aguas residuales que no son de proceso, las aguas residuales domésticas, los lixiviados de vertederos y las aguas pluviales se tratan mediante el Sistema de Tratamiento de Efluentes del Norte, que consiste en un tratamiento primario con flotación de nitrógeno disuelto y enfriador de aire de superficie húmeda; tratamiento biológico con balsas de aireación y clarificadores; y tratamiento terciario a partir de filtros de arena antes de su descarga a través del Emisario 007. Las aguas pluviales contaminadas, las aguas pluviales, las aguas residuales no procesadas, el agua de prueba hidrostática de embarcaciones que anteriormente contenían hidrocarburos y el agua contra incendios se dirigen a una serie de estanques antes de su descarga a través de los misarios 008 y 010.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

**PERMIT NO. WQ0000403000**

**APPLICATION.** Deer Park Refining Limited Partnership, P.O. Box 1915, Deer Park, Texas 77536, which owns a petroleum refinery and petrochemical manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000403000 (EPA I.D. No. TX0004871) to authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108; authorize the discharge of non-process wastewaters from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108; authorize the discharge of ballast water from Outfall 008 and internal Outfall 108; reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010; add new internal Outfall 208 to monitor the discharge of refinery process wastewaters from system upsets during extreme precipitation events before discharge via Outfall 008; revise Technology-Based Effluent Limits at Outfall 007; include a second phase for Outfall 007 for a future increase in production capacity and revise the TBELs at Outfall 007 accordingly; allow the use of algicide treatment in the ditch that flows to Outfall 008; include a definition of utility wastewaters; revise Other Requirement No. 10.A language for clarity and consistency; remove Outfall 001 from the permit; remove internal Outfall 207; and remove waste streams and associated effluent limitations from Outfall 007. The facility is located at 5900 State Highway 225, in the city of Deer Park, in Harris County, Texas 77536. The discharge route is from the plant site via Outfalls 002, 003, 004, and 009 to the Patrick Bayou Tidal portion of the Houston Ship Channel Tidal; via Outfalls 006, 007, and 010 directly to the Houston Ship Channel Tidal; and via Outfall 008 to the Boggy Bayou Tidal portion of the Houston Ship Channel Tidal. TCEQ received this application on August 28, 2025. The permit application will be available for viewing and copying at Deer Park Public Library, 3009 Center Street, Deer Park, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.1225,29.718888&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 Deer Park Refining Limited Partnership at the address stated above or by calling Mr. Ashish Jain, Environmental Engineer, PEMEX Deer Park, at 713-246-6931.

Issuance Date: October 3, 2025

# Comisión de Calidad Ambiental del Estado de Texas

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

**PERMISO NO. WQ0000403000**

**SOLICITUD.** Deer Park Refining Limited Partnership, P.O. Box 1915, Deer Park, Texas 77536 que posee una refinería de petróleo y una instalación de fabricación de petroquímicos, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0000403000 (EPA I.D. No. TX0004871) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de agua de prueba hidrostática de embarcaciones previamente en servicio de hidrocarburos desde Emisarios 002, 003, 004, 006, 008, 009 y Emisario interno 108; autorizar la descarga de aguas residuales no de proceso de los Emisarios 004, 006, 008, 009, 010 y del Emisario interno 108; autorizar la descarga de agua de lastre del Emisario 008 y del Emisario interno 108; reducir la frecuencia de monitoreo de las limitaciones de efluentes y los requisitos de monitoreo en los Emisarios 002, 003, 003, 004, 006, 007, 107, 008, 009 y 010; agregar un nuevo Emisario interno 208 para monitorear la descarga de aguas residuales de procesos de refinería debido a alteraciones del sistema durante eventos de precipitación extrema antes de la descarga a través del Emisario 008; revisar los límites de efluentes basados en tecnología en el emisario 007; incluir una segunda fase para el Emisario 007 para un aumento futuro en la capacidad de producción y revisar los TBEL en el Emisario 007 en consecuencia; permitir el uso de tratamiento algicida en la acequia que desemboca al Emisario 008; incluir una definición de aguas residuales de servicios públicos; revisar el Otro Requisito No. 10. Un lenguaje para mayor claridad y coherencia; eliminar el Emisario 001 del permiso; eliminar el emisario interno 207; y eliminar los flujos de desechos y las limitaciones de efluentes asociados del Emisario 007. La planta está ubicada 5900 State Highway 225 en el Condado de Harris, Texas 77536. La ruta de descarga es del sitio de la planta a hasta los emisarios 002, 003, 004 y 009 hasta la porción Patrick Bayou Tidal del Houston Ship Channel Tidal; a través de los emisarios 006, 007 y 010 directamente al Houston Ship Channel Tidal; y a través del emisario 008 hasta la parte Boggy Bayou Tidal del Houston Ship Channel Tidal. La TCEQ recibió esta solicitud el 28 de agosto de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la Biblioteca Pública de Deer Park, 3009 Center Street, Deer Park, en el Condado de Harris, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.1225,29.718888&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 ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

También se puede obtener información adicional del Deer Park Refining Limited Partnership a la dirección indicada arriba o llamando a Sr. Ashish Jain, Ingeniero Ambiental, PEMEX Deer Park, al 713-246-6931.

Fecha de emisión: 3 de octubre de 2025

**From:** Denney, Kara Lee F
**To:** Abesha Michael
**Cc:** ashish.jain@deerparkrefinery.com; Johnson, Sarah A; Fults, Holly; Amy.Robbins@deerparkrefinery.com
**Subject:** RE: Application to Amend Permit No. WQ0000403000 - Notice of Deficiency Letter
**Date:** Tuesday, September 9, 2025 3:29:36 PM
**Attachments:** wq0000403000-nod1_KD Comments.pdf
PEMEX Industrial Discharge Amendment Spanish NORI.docx

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Good afternoon Abesha,

We have some minor edits for the NORI language which I have also incorporated into the Spanish NORI language. Please let me know if you have any questions or issues.

**Kara Denney** \ Burns & McDonnell
Senior Compliance Specialist \ Environmental Services Group
Pronouns: she, her, hers
**M** 512-632-9915
kfdenney@burnsmcd.com \ burnsmcd.com
Suite 2300\ 444 Flower St \ Los Angeles, California 90071

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**From:** Abesha Michael <Abesha.Michael@tceq.texas.gov>
**Sent:** Monday, September 8, 2025 2:09 PM
**To:** Denney, Kara Lee F <kfdenney@burnsmcd.com>
**Cc:** ashish.jain@deerparkrefinery.com
**Subject:** FW: Application to Amend Permit No. WQ0000403000 - Notice of Deficiency Letter

**Dear Ms. Denney:**

The attached Notice of Deficiency letter sent on September 8, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by September 22, 2025.

Thank you,

Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912
Email: abesha.michael@tceq.texas.gov

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Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

September 8, 2025

Ms. Kara Denney
Senior Compliance Specialist
Burns & McDonnell
444 Flower Street, Suite 2300
Los Angeles, California 90071

RE: Application to Amend Permit No.: WQ0000403000 (EPA I.D. No. TX0004871)
Applicant Name: Deer Park Refining Limited Partnership (CN602641664)
Site Name: Deer Park Oil Refinery WWTP (RN111372785)
Type of Application: Major amendment with renewal

**VIA EMAIL**

Dear Ms. Denney:

We have received the application for the above-mentioned permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. The following is a portion of the NORI which contains information relevant to your appli Please read it carefully and indicate if it contains any errors or omissions. The complete will be sent to you once the application is declared administratively complete.

   **APPLICATION.** Deer Park Refining Limited Partnership, P.O. Box 1915, Deer Park, Texas 77536, which owns a petroleum refinery and petrochemical manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0000403000 (EPA I.D. No. TX0004871) to authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108; authorize the discharge of non-process wastewaters ~~Industrial Wastewater Application Administrative Report Page 4 of 17~~ from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108; authorize the discharge of ballast water from Outfall 008 and internal Outfall 108; reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010; add new internal Outfall 208 to monitor the discharge of refinery process wastewaters from system upsets during extreme precipitation events before discharge via Outfall 008; revise Technology-Based Effluent Limits at Outfall 007; include a second phase for Outfall 007 for a future increase in production capacity and revise the TBELs at Outfall 007 accordingly; allow the use of algicide treatment in the ditch that flows to Outfall 008; include a definition of utility wastewaters; revise Other Requirement No. 10.A language for clarity and consistency; remove Outfall 001 from the permit; remove internal Outfall 207; and remove waste streams and associated effluent limitations from Outfall 007**.** The facility is located at 5900 State Highway 225, in the city of Deer Park, in Harris County, Texas 77536. The discharge route is from the plant site to via Outfalls ~~001~~ 002, 003, 004, and 009 to the Patrick Bayou Tidal portion of the

I don't think this is supposed to be here.

We are requesting to remove Outfall 001 from the permit.

Houston Ship Channel Tidal; via Outfalls 006, 007, and 010 directly to the Houston Ship Channel Tidal; and via Outfall 008 to the Boggy Bayou Tidal portion of the Houston Ship Channel Tidal. TCEQ received this application on August 28, 2025. The permit application will be available for viewing and copying at Deer Park Public Library, 3009 Center Street, Deer Park, in Harris County, Texas, prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.1225,29.718888&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.

Further information may also be obtained from Deer Park Refining Limited Partnership at the address stated above or by calling Mr. Ashish Jain, Environmental Engineer, PEMEX Deer Park, at 713-246-6931.

2. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please submit the complete response, addressed to my attention by September 22, 2025 If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4912 or by email at abesha.michael@tceq.texas.gov.

Sincerely,

Abesha Michael

Abesha Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Enclosure(s)

cc: Mr. Ashish Jain, Environmental Engineer, CSP, CHMM, 5900 Highway 225, Deer Park, Texas 77536

# 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.** *Deer Park Refining Limited Partnership, P.O. Box 1915, Deer Park, Texas 77536 que posee una refinería de petróleo y una instalación de fabricación de petroquímicos* , ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para modificar el Permiso No. WQ0000403000 (EPA I.D. No. TX0004871) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar *la descarga de agua de prueba hidrostática de embarcaciones previamente en servicio de hidrocarburos desde Emisarios 002, 003, 004, 006, 008, 009 y Emisario interno 108; autorizar la descarga de aguas residuales no de proceso de los Emisarios 004, 006, 008, 009, 010 y del Emisario interno 108; autorizar la descarga de agua de lastre del Emisario 008 y del Emisario interno 108; reducir la frecuencia de monitoreo de las limitaciones de efluentes y los requisitos de monitoreo en los Emisarios 002, 003, 003, 004, 006, 007, 107, 008, 009 y 010; agregar un nuevo Emisario interno 208 para monitorear la descarga de aguas residuales de procesos de refinería debido a alteraciones del sistema durante eventos de precipitación extrema antes de la descarga a través del Emisario 008; revisar los límites de efluentes basados en tecnología en el emisario 007; incluir una segunda fase para el Emisario 007 para un aumento futuro en la capacidad de producción y revisar los TBEL en el Emisario 007 en consecuencia; permitir el uso de tratamiento algicida en la acequia que desemboca al Emisario 008; incluir una definición de aguas residuales de servicios públicos; revisar el Otro Requisito No. 10. Un lenguaje para mayor claridad y coherencia; eliminar el Emisario 001 del permiso; eliminar el emisario interno 207; y eliminar los flujos de desechos y las limitaciones de efluentes asociados del Emisario 007*. La planta está ubicada *5900 State Highway 225* en el Condado de *Harris*, Texas *77536*. La ruta de descarga es del sitio de la planta a *hasta los emisarios 002, 003, 004 y 009 hasta la porción Patrick Bayou Tidal del Houston Ship Channel Tidal; a través de los emisarios 006, 007 y 010 directamente al Houston Ship Channel Tidal; y a través del emisario 008 hasta la parte Boggy Bayou Tidal del Houston Ship Channel Tidal.* La TCEQ recibió esta solicitud el *28 de agosto de 2025*. La solicitud para el permiso estará disponible para leerla y copiarla en *la Biblioteca Pública de Deer Park, 3009 Center Street, Deer Park, en el Condado de Harris, Texas* antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.1225,29.718888&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 DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el**

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del *Deer Park Refining Limited Partnership* a la dirección indicada arriba o llamando a *Sr. Ashish Jain, Ingeniero Ambiental, PEMEX Deer Park, al 713-246-6931.*

Fecha de emisión: *[Date notice issued]*

August 27, 2025

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

RE: Application for a Renewal with Amendment for TPDES Permit WQ0000403000, Deer Park Refining Limited Partnership CN602641664; RN111372785

To whom it may concern,

On behalf of Deer Park Refining Limited Partnership, Burns & McDonnel Engineering, Inc. (Burns & McDonnell) submits herein to the Texas Commission on Environmental Quality (TCEQ) one original Application for Renewal with Amendment for the Deer Park Oil Refinery Texas Pollutant Discharge Elimination System (TPDES) Permit WQ000040300.

The application fee has been submitted via the TCEQ ePay system, and a copy of the vouchers is included with the enclosed application.

An electronic version of the application has been submitted as required.

We look forward to working with you and the entire team to process this application for a new TPDES Permit. If you have any questions, please do not hesitate to contact me via email at kfdenney@burnsmcd.com or via phone at (512) 632-9915 or contact Ashish Jain via email at ashish.jain@deerparkrefinery.com or via phone at (713) 246-6931.

Sincerely,

Burns & McDonnel Engineering, Inc.

Kara Denney
Senior Compliance Specialist

Enclosure

cc: Ashish Jain, PEMEX Deer Park
Matt Carlisle, PEMEX Deer Park

DEER PARK REFINING LIMITED PARTNERSHIP

# Deer Park Refinery TPDES Application WQ0000403000

## Renewal with Amendment

Project No. 180579
Revision 4
August 25, 2025

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# TPDES Administrative Report 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: Deer Park Refining Limited Partnership

PERMIT NUMBER (If new, leave blank): WQ00 00403000

**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 | ☐ | ☒ |
| Summary of Application (PLS) | ☒ | ☐ | Worksheet 11.1 | ☐ | ☒ |
| Public Involvement Plan Form | ☒ | ☐ | Worksheet 11.2 | ☐ | ☒ |
| Technical Report 1.0 | ☒ | ☐ | Worksheet 11.3 | ☐ | ☒ |
| Worksheet 1.0 | ☒ | ☐ | Original USGS Map | ☒ | ☐ |
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| 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 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: Deer Park Refining Limited Partnership

Permit No.: WQ00000403000

EPA ID No.: TX0004871

Expiration Date: March 4, 2026

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

☐ Reverse Osmosis Water Treatment (reverse osmosis water treatment wastewaters 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: Authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108; authorize the discharge of non-process wastewaters

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

from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108; authorize the discharge of ballast water from Outfall 008 and internal Outfall 108; reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010; add new internal Outfall 208 to monitor the discharge of refinery process wastewaters from system upsets during extreme precipitation events before discharge via Outfall 008; revise Technology-Based Effluent Limits at Outfall 007; include a second phase for Outfall 007 for a future increase in production capacity and revise the TBELs at Outfall 007 accordingly; allow the use of algicide treatment in the ditch that flows to Outfall 008; include a definition of utility wastewaters; revise Other Requirement No. 10.A language for clarity and consistency; remove Outfall 001 from the permit; remove internal Outfall 207; and remove waste streams and associated effluent limitations from Outfall 007.

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.: N/A

Check or money order amt.: N/A

Named printed on check or money order: N/A

***Epay***

Voucher number: 780563 & 780564

Copy of voucher attachment: A

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

a. Customer Number, if applicant is an existing customer: CN602641664

**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: Deer Park Refining Limited Partnership

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

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

Prefix: Mr. Full Name (Last/First Name): Hackwell/Guy

Title: CEO Deer Park (Deer Park Refining Limited Partnership) Credential: N/A

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

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Mrs. Full Name (Last/First Name): Denney/Kara

Title: Senior Compliance Specialist Credential: Click to enter text.

Organization Name: Burns & McDonnell

Mailing Address: 444 Flower St, Suite 2300 City/State/Zip: Los Angeles/CA/90071

Phone No: 512-632-9915 Email: kfdenney@burnsmcd.com

b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Jain/Ashish

Title: Environmental Engineer Credential: CSP, CHMM

Organization Name: PEMEX Deer Park

Mailing Address: 5900 HWY 225 City/State/Zip: Deer Park/TX/77536

Phone No: 713-246-6931 Email: ashish.jain@deerparkrefinery.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: Mr. Full Name (Last/First Name): Carlisle/James (Matt)
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: PEMEX Deer Park
Mailing Address: 5900 Deer Park City/State/Zip: Deer Park/TX/77536
Phone No: 713-246-4536 Email: james.carlisle@deerparkrefinery.com

b. Prefix: Mr. Full Name (Last/First Name): Jain/Ashish
Title: Environmental Engineer Credential: CSP, CHMM
Organization Name: PEMEX Deer Park
Mailing Address: 5900 Deer Park City/State/Zip: Deer Park/TX/77536
Phone No: 713-246-6931 Email: ashish.jain@deerparkrefinery.com

Attachment: Click to enter text.

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

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

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

Prefix: Mr. Full Name (Last/First Name): Carlisle/James (Matt)
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: PEMEX Deer Park
Mailing Address: 5900 Deer Park City/State/Zip: Deer Park/TX/77536
Phone No: 713-246-4536 Email: james.carlisle@deerparkrefinery.com

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

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

Prefix: Mr. Full Name (Last/First Name): Carlisle/James (Matt)
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: PEMEX Deer Park
Mailing Address: 5900 Deer Park City/State/Zip: Deer Park/TX/77536

Phone No: 713-246-4536 Email: james.carlisle@deerparkrefinery.com

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

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Denney/Kara

Title: Senior Compliance Specialist Credential: Click to enter text.

Organization Name: Burns & McDonnell

Mailing Address: 1700 West Loop South, Suite 1500 City/State/Zip: Houston/TX/77027

Phone No: 512-632-9915 Email: kfdenney@burnsmcd.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: kfdenney@burnsmcd.com, & ashish.jain@deerparkrefinery.com

☐ Fax: N/A

☐ Regular Mail (USPS)

Mailing Address: N/A

City/State/Zip Code: N/A

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Jain/Ashish

Title: Environmental Engineer Credential: CSP, CHMM

Organization Name: PEMEX Deer Park

Phone No: 713-246-6931 Email: ashish.jain@deerparkrefinery.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: Deer Park Public Library Location within the building: Deer Park Public Library

Physical Address of Building: 3009 Center Street

City: Deer Park County: Harris

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. Summary of Application in Plain Language Template – Complete and attach the Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS. Attachment: Click to enter text.

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

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN111372785

**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 (name known by the community where located): Deer Park Refinery

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: N/A Full Name (Last/First Name): N/A

   or Organization Name: Deer Park Refining Limited Partnership

   Mailing Address: 5900 Hwy 225 City/State/Zip: Deer Park/TX/77536

Phone No: (713) 246-7301 Email: info@deerparkrefinery.com

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

f. Owner of land where treatment facility is or will be: Deer Park Refining Limited Partnership

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: Deer Park Refining Limited Partnership

Mailing Address: 5900 Hwy 225 City/State/Zip: Deer Park/TX/77536

Phone No: (713) 246-7301 Email: info@deerparkrefinery.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: N/A

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

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: N/A

Mailing Address: N/A City/State/Zip: N/A

Phone No: N/A Email: N/A

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

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

Prefix: N/A Full Name (Last/First Name): N/A

or Organization Name: N/A

Mailing Address: N/A City/State/Zip: N/A

Phone No: N/A Email: N/A

**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

☒ Three-miles downstream information

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☒ All wastewater ponds

☐ Sewage sludge disposal site ☐ New and future construction

Attachment: E

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

f. City nearest the outfall(s): Deer Park

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

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

☐ Yes ☒ No

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

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

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Harris, Chambers, and Galveston Counties

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: N/A

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: Kara Denney & Sarah Johonson

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: N/A

Total amount due: N/A

c. Do you owe any penalties to the TCEQ?

☒ Yes ☐ No

If yes, provide the following information:

Enforcement order no.: Administrative Order 66207 and Court Order 67098

Amount due: 66207: Supplemental Environmental Project Offset Amount of $3,810 - Other $3810 is waiting to go to commission/ SEP- waiting for agreed order for approval; 67098, no associated fees at this time. – Check was returned,

## Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0000403000

Applicant Name: info@deerparkrefinery.com

Certification: I, Deer Park Refining Limited Partnership, 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): Guy Hackwell

Signatory title: CEO, Deer Park Refining Limit Partnership

Signature: _____ (Use blue ink) Date: 8/25/2025

Subscribed and Sworn to before me by the said Guy Hackwell

on this 25th day of August, 20 25.

My commission expires on the 14th day of December, 20 25.

Notary Public

Harris County, Texas

[SEAL]

Vicki Lynn Gibbs
My Commission Expires
12/14/2025
Notary ID
7165854

**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: F

b. ☒ that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

c. Check this box to confirm a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.Provide the source of the landowners' names and mailing addresses: Harris 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): N/A

## Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: G

# 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:** H

# 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) – Attachment: B
*(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) – Attachment: A
*(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)*

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

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

☐ N/A ☒ Landowners Map – Attachment: F

**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 Labels and Cross Reference List – Attachment: F
*(See instructions for landowner requirements.)*

☒ Electronic Application Submittal
*(See application submittal requirements on page 23 of the instructions.)*

☒ 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.)*

☒ Summary of Application (in Plain Language) – Attachment: C

# TPDES Technical Report 1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

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

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

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

| |
|---|
| Petroleum Refining, SIC 2911 |

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

| |
|---|
| See Attachment I for details on the wastewater generating processes. |

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

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

**Materials List**

| Raw Materials | Intermediate Products | Final Products |
|---|---|---|
| See Attachment I | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

**Attachment:** I

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:** J

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

☐ Yes ☒ No

If **yes**, provide background discussion: NA

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: FIRM 48201C0910M, effective on 01/06/2017

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: 18ft

**Attachment:** The U.S. Army Corps of Engineers developed a 100-year flood surge elevation of 18 ft above mean sea level. A flood protection project was mechanically completed in April 1986 to assure all facilities are protected above this elevation.

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 I for information on the wastewater treatment system.

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:** K

## 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 #** Stormwater Impoundment Basin (SWIB) | **Pond #** North Pond | **Pond #** 002A | **Pond #** 002B |
|---|---|---|---|---|
| Use Designation: (T) (D) (C) or (E) | C | C | C | C |
| Associated Outfall Number | 108 | 010 | 002 | NA |
| Liner Type (C) (I) (S) or (A) | C | Concrete w/ (S) | C | C |
| Alt. Liner Attachment Reference | NA | NA | NA | NA |
| Leak Detection System, Y/N | N | N | N | N |
| Groundwater Monitoring Wells, Y/N | N | N | N | N |
| Groundwater Monitoring Data Attachment | N | N | N | N |
| Pond Bottom Located Above The Seasonal High-Water Table, Y/N | | | | |
| Length (ft) | Odd Shape | Odd Shape | Odd Shape | Odd Shape |
| Width (ft) | Odd Shape | Odd Shape | Odd Shape | Odd Shape |
| Max Depth From Water Surface (ft), Not Including Freeboard | 22 | 15 | 5 | 5 |

| **Parameter** | **Pond #** Stormwater Impoundment Basin (SWIB) | **Pond #** North Pond | **Pond #** 002A | **Pond #** 002B |
|---|---|---|---|---|
| Freeboard (ft) | 2 | 2 | 2 | 2 |
| Surface Area (acres) | 7.7 | 2.4 | 0.45 | 0.1 |
| Storage Capacity (gallons) | 45,000,000 | 5,000,000 | 700,000 | 200,000 |
| *40 CFR Part 257, Subpart D,* Y/N | N | N | N | N |
| Date of Construction | 1976 | 1955, 2008 rebuild | 1976 | 1976 |

*Stormwater Impoundment Basin

| **Parameter** | **Pond #** 003A | **Pond #** 003B | **Pond #** | **Pond #** |
|---|---|---|---|---|
| Use Designation: (T) (D) (C) or (E) | C | C | | |
| Associated Outfall Number | 003 | NA | | |
| Liner Type (C) (I) (S) or (A) | C | C | | |
| Alt. Liner Attachment Reference | NA | NA | | |
| Leak Detection System, Y/N | N | N | | |
| Groundwater Monitoring Wells, Y/N | N | N | | |
| Groundwater Monitoring Data Attachment | N | N | | |
| Pond Bottom Located Above The Seasonal High-Water Table, Y/N | | | | |
| Length (ft) | Odd Shape | Odd Shape | | |
| Width (ft) | Odd Shape | Odd Shape | | |
| Max Depth From Water Surface (ft), Not Including Freeboard | 4 | 8 | | |
| Freeboard (ft) | 2 | 2 | | |
| Surface Area (acres) | 0.7 | 0.17 | | |
| Storage Capacity (gallons) | 900,000 | 400,000 | | |
| *40 CFR Part 257, Subpart D,* Y/N | N | N | | |
| Date of Construction | 1976 | 1976 | | |

**Attachment:** NA

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:** NA

**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:** NA

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:** NA

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:** NA

# 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) |
|---|---|---|
| 002 | 29.721111˚ | -95.116944˚ |
| 003 | 29.726111˚ | -95.114722˚ |

| Outfall No. | Latitude (Decimal Degrees) | Longitude (Decimal Degrees) |
|---|---|---|
| 004 | 29.730278° | -95.115000° |
| 006 | 29.732222° | -95.124444° |
| 007 | 29.731944° | -95.126944° |
| 008 | 29.729722° | -95.139722° |
| 009 | 29.728611° | -95.116389° |
| 010 | 29.732077° | -95.128657° |

**Outfall Location Description**

| Outfall No. | Location Description |
|---|---|
| 002 | At the point of discharge into Patrick Bayou |
| 003 | At the point of discharge into Patrick Bayou |
| 004 | At the point of discharge into Patrick Bayou |
| 006 | At the point of discharge into the Houston Ship Channel |
| 007 | At the outlet of the final treatment unit prior to discharge into the Houston Ship Channel |
| 008 | At the point of discharge into the Houston Ship Channel |
| 009 | At the point of discharge into Patrick Bayou |
| 010 | At the point of discharge into the Houston Ship Channel |
| 108 | At the point of discharge from the Storm Water Impoundment Basin then through R-008 |
| 208 | At the point of discharge from the Storm Water Impoundment Basin then through R-008 |
| 107 | At the point of discharge from the chlorine contact chamber prior to mixing with other wastewaters |

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

| Outfall No. | Description of sampling point |
|---|---|
| 002 | NA – Same as outfall |
| 003 | NA – Same as outfall |
| 004 | NA – Same as outfall |
| 006 | NA – Same as outfall |
| 007 | NA – Same as outfall |
| 008 | NA – Same as outfall |
| 009 | NA – Same as outfall |
| 010 | NA – Same as outfall |
| 108 | NA – Same as outfall |
| 208 | NA – Same as outfall |

| Outfall No. | Description of sampling point |
|---|---|
| 107 | NA – Same as outfall |

**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) |
|---|---|---|---|---|---|
| 002 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 003 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 004 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 006 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 007 | 9.25 | 14.0 | 9.25 | 14.0 | Currently Discharging |
| 008 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 009 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 010 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Not Currently Discharging |
| 108 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |
| 208 | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Intermittent/ Variable Flow | When Permit Issued |
| 107 | Report | Report | Intermittent/ Variable Flow | Intermittent/ Variable Flow | Currently Discharging |

**Outfall Discharge – Method and Measurement**

| Outfall No. | Pumped Discharge? Y/N | Gravity Discharge? Y/N | Type of Flow Measurement Device Used |
|---|---|---|---|
| 002 | N | Y | Radar Meter |
| 003 | N | Y | Radar Meter |
| 004 | N | Y | Radar Meter |
| 006 | N | Y | Radar Meter |
| 007 | N | Y | Venturi Flow Meter |
| 008 | N | Y | Radar Meter |

| Outfall No. | Pumped Discharge? Y/N | Gravity Discharge? Y/N | Type of Flow Measurement Device Used |
|---|---|---|---|
| 009 | N | Y | Radar Meter |
| 010 | N | Y | Radar Meter |
| 108 | N | Y | Radar Meter |
| 208 | N | Y | Radar Meter |
| 107 | N | Y | Radar Meter |

**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) |
|---|---|---|---|---|---|---|
| 002 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 003 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 004 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 006 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 007 | N | N | Y | 24 | 30 | 12 |
| 008 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 009 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 010 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 108 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 208 | Y | N | N | Intermittent/ Flow Variable | Intermittent/ Flow Variable | Intermittent/ Flow Variable |
| 107 | N | N | Y | 24 | 30 | 12 |

## Outfall Wastestream Contributions

**Outfall No. 002, 003, 004, 006, & 009**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Stormwater | Variable | Variable |
| Non-process wastewater (condensate, heat exchanger back flush water, utility wastewater, and firewater) | Variable | Variable |

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Hydrostatic test water from vessels that previously contained hydrocarbons | Variable | Variable |

**Outfall No. Phase I & II 007 (no increase in flows requested)**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Refinery process wastewater | 2.96 | 37.1 |
| Non-process wastewater | 3.24 | 40.6 |
| Ballast water | 0.576 | 7.2 |
| Stormwater | 1.15 | 14.4 |
| Domestic wastewater | 0.04 | 0.5 |
| Groundwater | Variable | <0.1 |
| Landfill Leachate | <0.01 | <0.1 |

**Outfall No. 008**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Stormwater | Variable | Variable |
| Ballast water | Variable | Variable |
| Non-process wastewater (condensate, heat exchanger back flush water, utility wastewater, and firewater) | Variable | Variable |
| Hydrostatic test water from vessels that previously contained hydrocarbons | Variable | Variable |
| Previously monitored effluent (108) | Variable | Variable |

**Outfall No. 010**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Contaminated runoff | Variable | Variable |
| Refinery process wastewater* | Emergency & Infrequent | Variable |
| Non-process wastewater (condensate, heat exchanger back flush water, utility wastewater, and firewater) | Variable | Variable |
| Hydrostatic test water from vessels that previously contained hydrocarbons | Variable | Variable |
| Stormwater | Variable | Variable |
| *See Attachment I for discussion on when Refinery process wastewaters may discharge through Outfall 010 | | |

**Outfall No. 107**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Domestic wastewater | 0.04 | 100 |

**Outfall No. 108**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Contaminated runoff | Variable | Variable |
| Ballast water | Variable | Variable |
| Non-process wastewater (condensate, heat exchanger back flush water, utility wastewater, and firewater) | Variable | Variable |
| Hydrostatic test water from vessels that previously contained hydrocarbons | Variable | Variable |
| Firewater | Variable | Variable |

**Outfall No. 208**

| Contributing Wastestream | Volume (MGD) | Percent (%) of Total Flow |
|---|---|---|
| Contaminated runoff | Variable | Variable |
| Refinery process wastewater* | Emergency & Infrequent | Variable |
| Non-process wastewater (condensate, heat exchanger back flush water, utility wastewater, and firewater) | Variable | Variable |
| Hydrostatic test water from vessels that previously contained hydrocarbons | Variable | Variable |
| Firewater | Variable | Variable |
| *See Attachment I for discussion on when refinery process wastewaters may discharge through Outfall 208 | | |

**Attachment:** See Attachment I for additional details

# 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:** L

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 | Phase I, 11<br>Phase II, 12 | 540,000 | 747,360 |
| Boilers | 34 | 482,400 | 1,084,300 |

## 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: Attachment I

## 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.** |
|---|---|
| NA | NA |
| | |

## 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: Agreed Order 2024-1890-AIR-E: Unauthorized emissions which require a Corrective Action Plan to address excessive emissions, environmental audit, and payment of fines to TCEQ.

## 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: TPDES Permit WQ0000403000 requires the following Whole Effluent Toxicity (WET) testing: Chronic static renewal 7-day survival and growth test using mysid shrimp (Mysidopsis bahia) and inland silverside (Menidia beryllina) and Acute 24-hr static toxicity testing using mysid shrimp (Mysidopsis bahia) and inland silverside (Menidia beryllina)

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

# 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:** I

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

☐ Decommissioned: Click to enter text.

☐ To Be Decommissioned: Click to enter text.

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

If **decommissioned**, provide the date operation ceased and stop here.

If to **be decommissioned**, provide the date operation is anticipated to cease and stop here.

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** | Trinity River Authority | | |
| **Owner** | Coastal Water Authority | | |
| **Operator** | Coastal Water Authority | | |

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

☒ No ☐ Yes; PWS No.: Click to enter text.

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here.

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

   ☒ No ☐ Yes; Auth No.: Click to enter text.

   If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here.

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

   ☐ No ☒ Yes; AIF: 1,300 MGD

   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.

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(s) 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. Explanation: Click to enter text.

   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*.

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

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

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

☒ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

   ☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

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

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

☐ Track I – AIF greater than 10 MGD

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

☐ Track II

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

**Attachment:** Click to enter text.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility

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

☐ Track I – Not a fixed facility

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

☐ Track II – Fixed facility

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

**Attachment:** Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

☒ Yes ☐ No

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

1. Authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108.
2. Authorize the discharge of non-process wastewaters from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108.
3. Authorize the discharge of ballast water from Outfall 008 and internal Outfall 108.
4. Reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010.
5. Authorize the discharge of refinery process wastewater from system upsets during extreme precipitation events from Outfall 010 and new internal Outfall 208.
6. Revise and implement Technology-Based Effluent Limits at Outfall 007.
7. Include a second phase for Outfall 007 for a future increase in production capacity and revise the Technology Based Effluent Limits at Outfall 007 accordingly.

NOTE: See Attachment I for details on the above major amendment requests.

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

☒ Yes ☐ No

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

1. Allow the use of algicide treatment in the ditch that flows to Outfall 008.
2. Include a definition of utility wastewaters.
3. Revise Other Requirement No. 10.A language for clarity and consistency.

NOTE: See Attachment I for details on the above minor amendment requests.

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

☒ Yes ☐ No

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

1. Remove Outfall 001 from the permit.
2. Remove internal Outfall 207.
3. Remove waste streams and associated effluent limitations from Outfall 007.

NOTE: See Attachment I for details on the above minor modification requests.

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

☐ Yes ☒ No

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

1. Remove Outfall 001 from the permit.
2. Remove internal Outfall 207.
3. Remove waste streams and associated effluent limitations from Outfall 007.

NOTE: See Attachment I for details on the above minor modification requests.

## 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: Guy Hackwell

Title: CEO of PEMEX Deer Park (Deer Park Refining Limited Partnership

Signature: _____

Date: 8/25/2025

# Worksheet 1.0
# EPA Categorical Effluent guidelines

# 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 |
|---|---|
| Petroleum Refining Point Source Category | 419 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

## 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 |
|---|---|---|---|
| | | | |
| See attached production data to this worksheet. | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

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

**Percentage of Total Production**

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

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

Provide the applicable subcategory and a brief justification.

Subpart B - Cracking Subcategory

The facility produces petroleum products by the use of topping and cracking unit operations.

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

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

Process Wastewater Flow – 2.96 MGD

Non-Process Wastewater Flow – 3.24 MGD

Stormwater Flow – 1.15 MGD

Ballast Water – 0.576 MGD

Domestic wastewater – 0.04 MGD

Groundwater – Variable

Landfill leachate – <0.01 MGD

# 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 |
|---|---|---|---|
| See attached information to this section. | | | |
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# WORKSHEET 1.0: EPA CATAGORICAL EFFLUENT GUIDELINES

## Item 2.a. Production Data

| Subcategory | Actual Quantity/Day | Design Quantity/Day | Units** |
|---|---|---|---|
| **Crude Processes** | **340*** | **340*** | **kbpd** |
| Atmospheric Distillation DU1 | Phase I – 70<br>Phase II - 85 | Phase I – 70<br>Phase II - 85 | kbpd |
| Atmospheric Distillation DU2 | 270 | 270 | kbpd |
| Vacuum Distallation VF3 | 120 | 120 | kbpd |
| Vacuum Distallation VF4 | 35 | 35 | kbpd |
| Desalting | 340 | 340 | kbpd |
| **Cracking & Coking Processes** | **527** | **545** | **kbpd** |
| Fluid Catalytic Cracking | 70 | 75 | kbpd |
| Hydrocracking | 67 | 67 | kbpd |
| Delayed Coking | 88 | 88 | kbpd |
| Hydrotreating GOHT | 43 | 43 | kbpd |
| Hydrotreating HDU 1 | 40 | 40 | kbpd |
| Hydrotreating HDU 2 | 81 | 82 | kbpd |
| Hydrotreating CFH | 50 | 50 | kbpd |
| Hydrotreating CGHT | 43 | 45 | kbpd |
| Hydrotreating DHT | 45 | 55 | kbpd |
| **Reforming & Alkylation** | **88** | **90** | **kbpd** |
| $H_2SO_4$ Akylation | 19 | 20 | kbpd |
| Catalytic Reforming (CR3) | 44 | 45 | kbpd |
| Catalytic Reforming (PLT 2) | 25 | 25 | kbpd |

* Crude Processes (Refinery Throughput) is the sum of the 2 atmospheric distillation units.

** kbpd = thousand barrels per day.

## Item 4. New Source Determination

| Process | EPA Guideline | | Date Process/Construction Commenced |
|---|---|---|---|
| | Part | Subpart | |
| ALKYLATION | 419 | B | 1991 |
| AMINE REGENERATION UNIT | 419 | B | 1992 |
| CAT CRACKER UNIT | 419 | B | pre 1984 |
| CATALYTIC FEED HYDROTREATER | 419 | B | pre 1984 |
| CRACKED GAS HYDROTREATER | 419 | B | 2002 |
| RELIANT COGENERATION | 419 | B | 1992 |
| COKER | 419 | B | 1992 |
| CATALYTIC REFORMER NO. 3 | 419 | B | pre 1984 |
| DISTILLATE HYDROTREATER | 419 | B | pre 1984 |
| DISTILLING UNIT NO. 1 | 419 | B | pre 1984 |
| DISTILLING UNIT NO. 2 | 419 | B | pre 1984 |
| FUEL GAS TREATER | 419 | B | pre 1984 |
| GAS OIL HYDROTREATER | 419 | B | 1992 |
| HYDRODESULPHURIZATION UNIT NO. 1 | 419 | B | pre 1984 |
| HYDRODESULPHURIZATION UNIT NO. 2 | 419 | B | pre 1984 |
| HYDROGEN PLANT NO. 1 | 419 | B | pre 1984 |
| HIGH VISCOSITY INDEX DISTILLATION UNIT | 419 | B | 1993 |
| METHYL TERTIARY BUTYL ETHER | 419 | B | 1991 |
| NORTH EFFLUENT TREATER | 419 | B | pre 1984 |
| PLATFORMER 2 | 419 | B | pre 1984 |
| SHCU POST FRACTIONATOR | 419 | B | 1998 |
| PRESSURE SWING ABSORBER | 419 | B | 1992 |
| SATS GAS PLANT | 419 | B | pre 1984 |
| SELECTIVE HYDROCRACKER UNIT | 419 | B | pre 1984 |
| SULFUR RECOVERY UNIT NO. 5 | 419 | B | pre 1984 |
| SULFUR RECOVERY UNIT NO. 6 | 419 | B | 1992 |
| SULFUR RECOVERY UNIT NO. 7 | 419 | B | 1992 |
| SULFUR RECOVERY UNIT NO. 8 | 419 | B | 1998 |
| SOUR WATER STRIPPER NO. 1 | 419 | B | pre 1984 |
| SOUR WATER STRIPPER NO. 2 | 419 | B | 1992 |
| UTILITIES-WATER TREATMENT | 419 | B | pre 1984 |
| VACUUM FLASHER NO. 3 | 419 | B | pre 1984 |
| VACUUM FLASHER NO. 4 | 419 | B | 1998 |

# Worksheet 2.0
# Pollutant Analysis

# 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):

b. X 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:**

## 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:**

**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.: 002** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | <2.00 | | | |
| CBOD (5-day) | 4.69 | | | |
| Chemical oxygen demand | 17.0 (J) | | | |
| Total organic carbon | 5.37 | | | |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 2.02 | | | |
| Total suspended solids | 61.3 | | | |
| Nitrate nitrogen | 0.363 | | | |
| Total organic nitrogen | 1.710 | | | |
| Total phosphorus | 0.244 | | | |
| Oil and grease | 3.56 (J) | | | |
| Total residual chlorine | 0.573 | | | |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 273 | | | |
| Sulfate | 70.20 | | | |
| Chloride | 39.80 | | | |
| Fluoride | 0.286 (J) | | | |
| Total alkalinity (mg/L as CaCO3) | 68.2 | | | |
| Temperature (°F) | 74.4 (HF) | | | |
| pH (standard units) | 8.53 | | | |

**Table 2 for Outfall No.: 002** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 1190 | | | | 2.5 |
| Antimony, total | <2.00 | | | | 5 |
| Arsenic, total | 2.90 | | | | 0.5 |
| Barium, total | 53.8 | | | | 3 |
| Beryllium, total | <0.500 | | | | 0.5 |
| Cadmium, total | <0.500 | | | | 1 |
| Chromium, total | 4.29 | | | | 3 |
| Chromium, hexavalent | <2.00 | | | | 3 |
| Chromium, trivalent | 4.29 (J) | | | | N/A |
| Copper, total | 8.07 | | | | 2 |
| Cyanide, available | <1.98 | | | | 2/10 |
| Lead, total | 13.2 | | | | 0.5 |
| Mercury, total | 0.0133 | | | | 0.005/0.0005 |
| Nickel, total | 2.89 | | | | 2 |
| Selenium, total | <2.00 | | | | 5 |
| Silver, total | <0.500 | | | | 0.5 |
| Thallium, total | <0.500 | | | | 0.5 |
| Zinc, total | 504 | | | | 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.: 002** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Acrylonitrile | <14.3 | | | | 50 |
| Anthracene | <0.0937 | | | | 10 |
| Benzene | <0.460 | | | | 10 |
| Benzidine | <0.446 | | | | 50 |
| Benzo(a)anthracene | <0.0819 | | | | 5 |
| Benzo(a)pyrene | <0.0699 | | | | 5 |
| Bis(2-chloroethyl)ether | <0.214 | | | | 10 |
| Bis(2-ethylhexyl)phthalate | <1.43 | | | | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | | | | 10 |
| Bromoform | <0.633 | | | | 10 |
| Carbon tetrachloride | <0.896 | | | | 2 |
| Chlorobenzene | <0.455 | | | | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | | | | 10 |
| Chloroform | | | | | 10 |
| Chrysene | <0.0814 | | | | 5 |
| m-Cresol [3-Methylphenol] | <0.139 | | | | 10 |
| o-Cresol [2-Methylphenol] | <0.105 | | | | 10 |
| p-Cresol [4-Methylphenol] | <0.139 | | | | 10 |
| 1,2-Dibromoethane | <0.999 | | | | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <0.102 | | | | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <0.0778 | | | | 10 |
| 3,3'-Dichlorobenzidine | <0.183 | | | | 5 |
| 1,2-Dichloroethane | <0.372 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,1-Dichloroethene [1,1-Dichloroethylene] | <0.738 | | | | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | <1.27 | | | | 10 |
| 2,4-Dimethylphenol | <0.192 | | | | 10 |
| Di-n-Butyl phthalate | <1.43 | | | | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | <0.385 | | | | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 286 (J) | | | | 500 |
| Hexachlorobenzene | <0.0973 | | | | 5 |
| Hexachlorobutadiene | <0.103 | | | | 10 |
| Hexachlorocyclopentadiene | <0.218 | | | | 10 |
| Hexachloroethane | <0.102 | | | | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | <0.431 | | | | 1 |
| Methyl ethyl ketone | <8.28 | | | | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <0.0735 | | | | 10 |
| N-Nitrosodiethylamine | <0.538 | | | | 20 |
| N-Nitroso-di-n-butylamine | <0.515 | | | | 20 |
| Nonylphenol | <2.50 | | | | 333 |
| Pentachlorobenzene | <0.266 | | | | 20 |
| Pentachlorophenol | <0.199 | | | | 5 |
| Phenanthrene | <0.134 | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.0390 | | | | 0.2 |
| Pyridine | <1.44 | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | <0.0956 | | | | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | <0.655 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Toluene | <0.475 | | | | 10 |
| 1,1,1-Trichloroethane | <0.585 | | | | 10 |
| 1,1,2-Trichloroethane | <0.411 | | | | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | | | | 10 |
| 2,4,5-Trichlorophenol | <0.143 | | | | 50 |
| TTHM (Total trihalomethanes) | <0.633 | | | | 10 |
| Vinyl chloride | <0.428 | | | | 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 X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X No

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

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

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

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

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

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

X N/A

**Table 5 for Outfall No.:** **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 |

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Dicofol [Kelthane] | | | | | 1 |
| Dieldrin | | | | | 0.02 |
| Diuron | | | | | 0.090 |
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 002** **Samples are (check one): ☐ Composite X 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 | ☐ | ☐ | <132 | | | | 400 |
| Color (PCU) | ☐ | ☐ | 50 | | | | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | <0.0500 | | | | — |
| Sulfide (as S) | ☐ | ☐ | 0.0643 (J) | | | | — |
| Sulfite (as SO3) | ☐ | ☐ | 9.00 | | | | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 0.0856 | | | | 20 |
| Cobalt, total | ☐ | ☐ | <0.002 | | | | 0.3 |
| Iron, total | ☐ | ☐ | 1.080 | | | | 7 |
| Magnesium, total | ☐ | ☐ | 3.140 | | | | 20 |
| Manganese, total | ☐ | ☐ | 0.0606 | | | | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.00692 | | | | 1 |
| Tin, total | ☐ | ☐ | <0.002 | | | | 5 |
| Titanium, total | ☐ | ☐ | 0.0126 | | | | 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 |
| X Petroleum Refining | 419 | X 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.:** **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | | | | | 50 |
| Acrylonitrile | | | | | 50 |
| Benzene | | | | | 10 |
| Bromoform | | | | | 10 |
| Carbon tetrachloride | | | | | 2 |
| Chlorobenzene | | | | | 10 |
| Chlorodibromomethane | | | | | 10 |
| Chloroethane | | | | | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [Bromodichloromethane] | | | | | 10 |
| 1,1-Dichloroethane | | | | | 10 |
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | | | | | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Methyl bromide [Bromomethane] | | | | | 50 |
| Methyl chloride [Chloromethane] | | | | | 50 |
| Methylene chloride [Dichloromethane] | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethylene [Tetrachloroethene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene] | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethylene [Trichloroethene] | | | | | 10 |
| Vinyl chloride | | | | | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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 X No

Description:

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

**Table 12 for Outfall No.:** **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.:** **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 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): 6/11/2025

b. X 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:**

## 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:**

**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.: 003** **Samples are (check one):** ☐ **Composite** X **Grab**

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | 6.71 | | | |
| CBOD (5-day) | 2.63 | | | |
| Chemical oxygen demand | 21.5 | | | |
| Total organic carbon | 4.16 | | | |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 3.66 | | | |
| Total suspended solids | 134 | | | |
| Nitrate nitrogen | 0.382 | | | |
| Total organic nitrogen | 3.130 | | | |
| Total phosphorus | 0.390 | | | |
| Oil and grease | 3.89 (J) | | | |
| Total residual chlorine | <0.05 | | | |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 486 | | | |
| Sulfate | 140 | | | |
| Chloride | 98.5 | | | |
| Fluoride | 0.273 (J) | | | |
| Total alkalinity (mg/L as CaCO3) | 56.1 | | | |
| Temperature (°F) | 74.66 | | | |
| pH (standard units) | 7.78 | | | |

**Table 2 for Outfall No.: 003** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 916 | | | | 2.5 |
| Antimony, total | 2.86 | | | | 5 |
| Arsenic, total | 2.32 | | | | 0.5 |
| Barium, total | 63.0 | | | | 3 |
| Beryllium, total | <0.500 | | | | 0.5 |
| Cadmium, total | <0.500 | | | | 1 |
| Chromium, total | 6.96 | | | | 3 |
| Chromium, hexavalent | <2.00 | | | | 3 |
| Chromium, trivalent | 6.96 (J) | | | | N/A |
| Copper, total | 9.88 | | | | 2 |
| Cyanide, available | <1.98 | | | | 2/10 |
| Lead, total | 12.1 | | | | 0.5 |
| Mercury, total | 0.0114 | | | | 0.005/0.0005 |
| Nickel, total | 5.13 | | | | 2 |
| Selenium, total | 2.12 | | | | 5 |
| Silver, total | <0.500 | | | | 0.5 |
| Thallium, total | <0.500 | | | | 0.5 |
| Zinc, total | 1290 | | | | 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.: 003** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Acrylonitrile | <14.3 | | | | 50 |
| Anthracene | <0.0941 | | | | 10 |
| Benzene | 0.796 (J) | | | | 10 |
| Benzidine | <0.447 | | | | 50 |
| Benzo(a)anthracene | 0.0850 (J) | | | | 5 |
| Benzo(a)pyrene | 0.0789 (J) | | | | 5 |
| Bis(2-chloroethyl)ether | <0.215 | | | | 10 |
| Bis(2-ethylhexyl)phthalate | <1.43 | | | | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | | | | 10 |
| Bromoform | <0.633 | | | | 10 |
| Carbon tetrachloride | <0.896 | | | | 2 |
| Chlorobenzene | <0.455 | | | | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | | | | 10 |
| Chloroform | | | | | 10 |
| Chrysene | 0.143 (J) | | | | 5 |
| m-Cresol [3-Methylphenol] | 0.640 | | | | 10 |
| o-Cresol [2-Methylphenol] | 0.659 | | | | 10 |
| p-Cresol [4-Methylphenol] | 0.640 | | | | 10 |
| 1,2-Dibromoethane | <0.999 | | | | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <0.102 | | | | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <0.0781 | | | | 10 |
| 3,3'-Dichlorobenzidine | <0.184 | | | | 5 |
| 1,2-Dichloroethane | <0.372 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | <1.27 | | | | 10 |
| 2,4-Dimethylphenol | <0.193 | | | | 10 |
| Di-n-Butyl phthalate | <1.43 | | | | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | 2.10 | | | | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 273 (J) | | | | 500 |
| Hexachlorobenzene | <0.0978 | | | | 5 |
| Hexachlorobutadiene | <0.103 | | | | 10 |
| Hexachlorocyclopentadiene | <0.219 | | | | 10 |
| Hexachloroethane | <0.102 | | | | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | <0.433 | | | | 1 |
| Methyl ethyl ketone | <8.28 | | | | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <0.0739 | | | | 10 |
| N-Nitrosodiethylamine | <0.540 | | | | 20 |
| N-Nitroso-di-n-butylamine | <0.517 | | | | 20 |
| Nonylphenol | <2.50 | | | | 333 |
| Pentachlorobenzene | <0.267 | | | | 20 |
| Pentachlorophenol | <0.199 | | | | 5 |
| Phenanthrene | <0.134 | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.0390 | | | | 0.2 |
| Pyridine | <1.44 | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | <0.0960 | | | | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | 6.57 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Toluene | 67.5 | | | | 10 |
| 1,1,1-Trichloroethane | <0.585 | | | | 10 |
| 1,1,2-Trichloroethane | <0.411 | | | | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | | | | 10 |
| 2,4,5-Trichlorophenol | <0.144 | | | | 50 |
| TTHM (Total trihalomethanes) | <0.633 | | | | 10 |
| Vinyl chloride | <0.428 | | | | 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 X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X No

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

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

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

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

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

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

X N/A

**Table 5 for Outfall No.:** **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 |

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Dicofol [Kelthane] | | | | | 1 |
| Dieldrin | | | | | 0.02 |
| Diuron | | | | | 0.090 |
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 003** **Samples are (check one): ☐ Composite X Grab**

| Pollutants | Believed Present | Believed Absent | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) | MAL (µg/L)* |
|---|---|---|---|---|---|---|---|
| Bromide | ☐ | ☐ | 0.545 | | | | 400 |
| Color (PCU) | ☐ | ☐ | 5 | | | | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | <0.05 | | | | — |
| Sulfide (as S) | ☐ | ☐ | <0.0290 | | | | — |
| Sulfite (as SO3) | ☐ | ☐ | <5 | | | | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 0.226 | | | | 20 |
| Cobalt, total | ☐ | ☐ | <0.002 | | | | 0.3 |
| Iron, total | ☐ | ☐ | <0.02 | | | | 7 |
| Magnesium, total | ☐ | ☐ | 3.640 | | | | 20 |
| Manganese, total | ☐ | ☐ | 0.0851 | | | | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.0103 | | | | 1 |
| Tin, total | ☐ | ☐ | <0.002 | | | | 5 |
| Titanium, total | ☐ | ☐ | 0.0159 | | | | 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 |
| X Petroleum Refining | 419 | X 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.:** **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | | | | | 50 |
| Acrylonitrile | | | | | 50 |
| Benzene | | | | | 10 |
| Bromoform | | | | | 10 |
| Carbon tetrachloride | | | | | 2 |
| Chlorobenzene | | | | | 10 |
| Chlorodibromomethane | | | | | 10 |
| Chloroethane | | | | | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [Bromodichloromethane] | | | | | 10 |
| 1,1-Dichloroethane | | | | | 10 |
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | | | | | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Methyl bromide [Bromomethane] | | | | | 50 |
| Methyl chloride [Chloromethane] | | | | | 50 |
| Methylene chloride [Dichloromethane] | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethylene [Tetrachloroethene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene] | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethylene [Trichloroethene] | | | | | 10 |
| Vinyl chloride | | | | | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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

☐ Yes ☐ No

Description:

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

**Table 12 for Outfall No.:** **Samples are (check one):** ☐ **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.:** **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 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):

b. X 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:**

## 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:**

**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.: 004** **Samples are (check one):** ☐ **Composite** X **Grab**

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | <6.00 | | | |
| CBOD (5-day) | <6.00 | | | |
| Chemical oxygen demand | 56 | | | |
| Total organic carbon | 3.70 | | | |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 1.21 | | | |
| Total suspended solids | 712 | | | |
| Nitrate nitrogen | 0.392 | | | |
| Total organic nitrogen | 1.12 | | | |
| Total phosphorus | 0.260 | | | |
| Oil and grease | 2.00(J) | | | |
| Total residual chlorine | <0.250 | | | |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 166 | | | |
| Sulfate | 42.5 | | | |
| Chloride | 15.5 | | | |
| Fluoride | 0.196(J) | | | |
| Total alkalinity (mg/L as CaCO3) | 64.5 | | | |
| Temperature (°F) | 635 | | | |
| pH (standard units) | 7.57 | | | |

**Table 2 for Outfall No.: 004** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 7100 | | | | 2.5 |
| Antimony, total | <2.00 | | | | 5 |
| Arsenic, total | 6.16 | | | | 0.5 |
| Barium, total | 159 | | | | 3 |
| Beryllium, total | 0.514 | | | | 0.5 |
| Cadmium, total | 0.587 | | | | 1 |
| Chromium, total | 42.2 | | | | 3 |
| Chromium, hexavalent | <2.00 | | | | 3 |
| Chromium, trivalent | 42.2 | | | | N/A |
| Copper, total | 31.2 | | | | 2 |
| Cyanide, available | <1.98 | | | | 2/10 |
| Lead, total | 68.5 | | | | 0.5 |
| Mercury, total | 0.102 | | | | 0.005/0.0005 |
| Nickel, total | 19.3 | | | | 2 |
| Selenium, total | <2.00 | | | | 5 |
| Silver, total | <0.500 | | | | 0.5 |
| Thallium, total | <0.500 | | | | 0.5 |
| Zinc, total | 653 | | | | 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.: 004** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Acrylonitrile | <14.3 | | | | 50 |
| Anthracene | 1.22(J) | | | | 10 |
| Benzene | <0.460 | | | | 10 |
| Benzidine | <5.40 | | | | 50 |
| Benzo(a)anthracene | <1.26 | | | | 5 |
| Benzo(a)pyrene | <1.07 | | | | 5 |
| Bis(2-chloroethyl)ether | <1.06 | | | | 10 |
| Bis(2-ethylhexyl)phthalate | <5.69 | | | | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | | | | 10 |
| Bromoform | <0.633 | | | | 10 |
| Carbon tetrachloride | <0.896 | | | | 2 |
| Chlorobenzene | <0.455 | | | | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | | | | 10 |
| Chloroform | | | | | 10 |
| Chrysene | 1.52(J) | | | | 5 |
| m-Cresol [3-Methylphenol] | <0.941 | | | | 10 |
| o-Cresol [2-Methylphenol] | <1.09 | | | | 10 |
| p-Cresol [4-Methylphenol] | <0.941 | | | | 10 |
| 1,2-Dibromoethane | <0.999 | | | | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <1.07 | | | | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <1.09 | | | | 10 |
| 3,3'-Dichlorobenzidine | <6.48 | | | | 5 |
| 1,2-Dichloroethane | <0.372 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | | | | | 10 |
| 2,4-Dimethylphenol | <1.12 | | | | 10 |
| Di-n-Butyl phthalate | <6.58 | | | | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | <0.385 | | | | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 196(J) | | | | 500 |
| Hexachlorobenzene | <1.32 | | | | 5 |
| Hexachlorobutadiene | <1.61 | | | | 10 |
| Hexachlorocyclopentadiene | <1.79 | | | | 10 |
| Hexachloroethane | <1.25 | | | | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | <6.94 | | | | 1 |
| Methyl ethyl ketone | <8.28 | | | | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <1.52 | | | | 10 |
| N-Nitrosodiethylamine | <6.71 | | | | 20 |
| N-Nitroso-di-n-butylamine | <7.22 | | | | 20 |
| Nonylphenol | <2.50 | | | | 333 |
| Pentachlorobenzene | <1.25 | | | | 20 |
| Pentachlorophenol | <3.11 | | | | 5 |
| Phenanthrene | 6.62 | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.0390 | | | | 0.2 |
| Pyridine | <8.34 | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | <1.15 | | | | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | <0.655 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Toluene | <0.475 | | | | 10 |
| 1,1,1-Trichloroethane | <0.585 | | | | 10 |
| 1,1,2-Trichloroethane | <0.411 | | | | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | | | | 10 |
| 2,4,5-Trichlorophenol | <4.30 | | | | 50 |
| TTHM (Total trihalomethanes) | <0.633 | | | | 10 |
| Vinyl chloride | <0.428 | | | | 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 X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X No

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

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

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

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

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

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

X N/A

**Table 5 for Outfall No.:** **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 |

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Dicofol [Kelthane] | | | | | 1 |
| Dieldrin | | | | | 0.02 |
| Diuron | | | | | 0.090 |
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 004** **Samples are (check one):** ☐ **Composite** X **Grab**

| **Pollutants** | **Believed Present** | **Believed Absent** | **Sample 1 (mg/L)** | **Sample 2 (mg/L)** | **Sample 3 (mg/L)** | **Sample 4 (mg/L)** | **MAL (µg/L)*** |
|---|---|---|---|---|---|---|---|
| Bromide | ☐ | ☐ | <0.132 | | | | 400 |
| Color (PCU) | ☐ | ☐ | 250 | | | | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | 0.285 | | | | — |
| Sulfide (as S) | ☐ | ☐ | <0.0290 | | | | — |
| Sulfite (as SO3) | ☐ | ☐ | <5.00 | | | | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 60.5 | | | | 20 |
| Cobalt, total | ☐ | ☐ | 4.48 | | | | 0.3 |
| Iron, total | ☐ | ☐ | 8.870 | | | | 7 |
| Magnesium, total | ☐ | ☐ | 5.880 | | | | 20 |
| Manganese, total | ☐ | ☐ | 0.466 | | | | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.0069 | | | | 1 |
| Tin, total | ☐ | ☐ | <0.002 | | | | 5 |
| Titanium, total | ☐ | ☐ | 0.071 | | | | 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 |
| X Petroleum Refining | 419 | X 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.:** **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | | | | | 50 |
| Acrylonitrile | | | | | 50 |
| Benzene | | | | | 10 |
| Bromoform | | | | | 10 |
| Carbon tetrachloride | | | | | 2 |
| Chlorobenzene | | | | | 10 |
| Chlorodibromomethane | | | | | 10 |
| Chloroethane | | | | | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [Bromodichloromethane] | | | | | 10 |
| 1,1-Dichloroethane | | | | | 10 |
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | | | | | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Methyl bromide [Bromomethane] | | | | | 50 |
| Methyl chloride [Chloromethane] | | | | | 50 |
| Methylene chloride [Dichloromethane] | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethylene [Tetrachloroethene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene] | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethylene [Trichloroethene] | | | | | 10 |
| Vinyl chloride | | | | | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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

☐ Yes ☐ No

Description:

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

**Table 12 for Outfall No.:** **Samples are (check one):** ☐ **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.:** **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 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): 06/25/2025

b. X 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:**

## 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:**

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

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

**Table 1 for Outfall No.: 006** **Samples are (check one):** ☐ **Composite** X **Grab**

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | <4.00 | | | |
| CBOD (5-day) | <4.00 | | | |
| Chemical oxygen demand | 29.9 | | | |
| Total organic carbon | 3.31 | | | |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 0.701 | | | |
| Total suspended solids | 85.3 | | | |
| Nitrate nitrogen | 0.442 | | | |
| Total organic nitrogen | 0.629 | | | |
| Total phosphorus | 0.0880 | | | |
| Oil and grease | <1.57 | | | |
| Total residual chlorine | 0.0684 | | | |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 591.0 | | | |
| Sulfate | 44.6 | | | |
| Chloride | 263.0 | | | |
| Fluoride | 0.167 (J) | | | |
| Total alkalinity (mg/L as CaCO3) | 41.1 | | | |
| Temperature (°F) | 73.22 | | | |
| pH (standard units) | 8.36 | | | |

**Table 2 for Outfall No.:006** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 614 | | | | 2.5 |
| Antimony, total | <2.00 | | | | 5 |
| Arsenic, total | 1.67 | | | | 0.5 |
| Barium, total | 63.4 | | | | 3 |
| Beryllium, total | <0.500 | | | | 0.5 |
| Cadmium, total | <0.500 | | | | 1 |
| Chromium, total | 6.54 | | | | 3 |
| Chromium, hexavalent | <2.00 | | | | 3 |
| Chromium, trivalent | 6.54 (J) | | | | N/A |
| Copper, total | 33.8 | | | | 2 |
| Cyanide, available | 22.4 | | | | 2/10 |
| Lead, total | 10.6 | | | | 0.5 |
| Mercury, total | 2.27 | | | | 0.005/0.0005 |
| Nickel, total | 3.71 | | | | 2 |
| Selenium, total | <2.00 | | | | 5 |
| Silver, total | <0.500 | | | | 0.5 |
| Thallium, total | <0.500 | | | | 0.5 |
| Zinc, total | 322 | | | | 5.0 |

**TABLE 3 (Instructions, Page 58)**

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

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

**Table 3 for Outfall No.: 006** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Acrylonitrile | <14.3 | | | | 50 |
| Anthracene | <0.934 | | | | 10 |
| Benzene | <0.460 | | | | 10 |
| Benzidine | <4.44 | | | | 50 |
| Benzo(a)anthracene | <0.817 | | | | 5 |
| Benzo(a)pyrene | <0.697 | | | | 5 |
| Bis(2-chloroethyl)ether | <2.13 | | | | 10 |
| Bis(2-ethylhexyl)phthalate | <14.2 | | | | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | | | | 10 |
| Bromoform | <0.633 | | | | 10 |
| Carbon tetrachloride | <0.896 | | | | 2 |
| Chlorobenzene | <0.455 | | | | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | | | | 10 |
| Chloroform | | | | | 10 |
| Chrysene | <0.812 | | | | 5 |
| m-Cresol [3-Methylphenol] | <1.38 | | | | 10 |
| o-Cresol [2-Methylphenol] | <1.04 | | | | 10 |
| p-Cresol [4-Methylphenol] | <1.38 | | | | 10 |
| 1,2-Dibromoethane | <0.999 | | | | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <1.01 | | | | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <0.776 | | | | 10 |
| 3,3'-Dichlorobenzidine | <1.82 | | | | 5 |
| 1,2-Dichloroethane | <0.372 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | <1.27 | | | | 10 |
| 2,4-Dimethylphenol | <1.91 | | | | 10 |
| Di-n-Butyl phthalate | <14.2 | | | | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | <0.385 | | | | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 167 (J) | | | | 500 |
| Hexachlorobenzene | <0.971 | | | | 5 |
| Hexachlorobutadiene | <1.02 | | | | 10 |
| Hexachlorocyclopentadiene | <2.17 | | | | 10 |
| Hexachloroethane | <1.01 | | | | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | 11.6 | | | | 1 |
| Methyl ethyl ketone | <8.28 | | | | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <0.733 | | | | 10 |
| N-Nitrosodiethylamine | <5.36 | | | | 20 |
| N-Nitroso-di-n-butylamine | <5.13 | | | | 20 |
| Nonylphenol | <2.50 | | | | 333 |
| Pentachlorobenzene | <2.65 | | | | 20 |
| Pentachlorophenol | <1.98 | | | | 5 |
| Phenanthrene | <1.33 | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.0390 | | | | 0.2 |
| Pyridine | <14.3 | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | <0.953 | | | | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | <0.655 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Toluene | <0.475 | | | | 10 |
| 1,1,1-Trichloroethane | <0.585 | | | | 10 |
| 1,1,2-Trichloroethane | <0.411 | | | | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | | | | 10 |
| 2,4,5-Trichlorophenol | <1.43 | | | | 50 |
| TTHM (Total trihalomethanes) | <0.633 | | | | 10 |
| Vinyl chloride | <0.428 | | | | 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 X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X No

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

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

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

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

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

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

X N/A

**Table 5 for Outfall No.:** **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 |

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Dicofol [Kelthane] | | | | | 1 |
| Dieldrin | | | | | 0.02 |
| Diuron | | | | | 0.090 |
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 006** **Samples are (check one):** ☐ **Composite** **X Grab**

| **Pollutants** | **Believed Present** | **Believed Absent** | **Sample 1 (mg/L)** | **Sample 2 (mg/L)** | **Sample 3 (mg/L)** | **Sample 4 (mg/L)** | **MAL (µg/L)*** |
|---|---|---|---|---|---|---|---|
| Bromide | ☐ | ☐ | <0.132 | | | | 400 |
| Color (PCU) | ☐ | ☐ | 10.0 | | | | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | 0.583 | | | | — |
| Sulfide (as S) | ☐ | ☐ | <0.290 | | | | — |
| Sulfite (as SO3) | ☐ | ☐ | <5.00 | | | | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 54.6 | | | | 20 |
| Cobalt, total | ☐ | ☐ | <0.002 | | | | 0.3 |
| Iron, total | ☐ | ☐ | 0.894 | | | | 7 |
| Magnesium, total | ☐ | ☐ | 2.29 | | | | 20 |
| Manganese, total | ☐ | ☐ | 0.0734 | | | | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.00521 | | | | 1 |
| Tin, total | ☐ | ☐ | <0.002 | | | | 5 |
| Titanium, total | ☐ | ☐ | 0.0144 | | | | 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.:** **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | | | | | 50 |
| Acrylonitrile | | | | | 50 |
| Benzene | | | | | 10 |
| Bromoform | | | | | 10 |
| Carbon tetrachloride | | | | | 2 |
| Chlorobenzene | | | | | 10 |
| Chlorodibromomethane | | | | | 10 |
| Chloroethane | | | | | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [Bromodichloromethane] | | | | | 10 |
| 1,1-Dichloroethane | | | | | 10 |
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | | | | | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Methyl bromide [Bromomethane] | | | | | 50 |
| Methyl chloride [Chloromethane] | | | | | 50 |
| Methylene chloride [Dichloromethane] | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethylene [Tetrachloroethene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene] | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethylene [Trichloroethene] | | | | | 10 |
| Vinyl chloride | | | | | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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

☐ Yes ☐ No

Description:

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

**Table 12 for Outfall No.:** **Samples are (check one):** ☐ **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.:** **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 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): 04/30/2025-05/14/2025

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:**

## 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:**

**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.: 007** **Samples are (check one):** × **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (mg/L)** | **Sample 2 (mg/L)** | **Sample 3 (mg/L)** | **Sample 4 (mg/L)** |
|---|---|---|---|---|
| BOD (5-day) | 7.98 | 5.71 | 8.13 | <2.00 |
| CBOD (5-day) | <2.00 | <2.40 | <2.55 | <2.00 |
| Chemical oxygen demand | 42.00 | 63.4 | 79.0 | 45.0 |
| Total organic carbon | 2.14 | 2.66 | 2.37 | 4.62 |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 3.34 | 2.55 | 1.34 | 2.20 |
| Total suspended solids | 4.00 | 7.00 | 13.3 | <4.00 |
| Nitrate nitrogen | 3.32 | 2.15 | 3.34 | 1.66 |
| Total organic nitrogen | 1.620 | 2.550 | 1.340 | 2.200 |
| Total phosphorus | 0.547 | 3.90 | 3.04 | 2.97 |
| Oil and grease | 1.79 (J) | 1.79 (J) | 2.00(J) | <1.57 |
| Total residual chlorine | 0.0758 | <0.0500 | <0.0500 | <0.0500 |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 3480 | 4460 | 3650 | 671 |
| Sulfate | 972 | 1180 | 1280 | 1180 |
| Chloride | 1390 | 1380 | 1090 | 577 |
| Fluoride | 0.293 (J) | 0.461 (J) | 0.475(J) | 0.583 |
| Total alkalinity (mg/L as CaCO3) | 166 | 138 | 199 | 60.4 |
| Temperature (˚F) | 56.84 | 58.64 | 70.7 | 73.04 |
| pH (standard units) | 7.50 | 7.66 | 7.66 | 7.90 |

**Table 2 for Outfall No.: 007** **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 | 49.9 | 65.6 | 112 | 99.6 | 2.5 |
| Antimony, total | 2.06 | 2.78 | <2.00 | <2.00 | 5 |
| Arsenic, total | 8.33 | 7.83 | 6.56 | 10.3 | 0.5 |
| Barium, total | 165 | 148 | 190 | 120 | 3 |
| Beryllium, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Cadmium, total | <0.500 | <0.500 | <0.500 | <0.500 | 1 |
| Chromium, total | <3.0 | <3.0 | <3.0 | <3.0 | 3 |
| Chromium, hexavalent | <2.0 | <2.0 | <2.0 | <2.0 | 3 |
| Chromium, trivalent | <2.0 | <2.0 | <2.0 | <2.0 | N/A |
| Copper, total | 6.26 | 6.77 | 6.05 | 5.70 | 2 |
| Cyanide, available | 3.83(J) | 5.32 | 4.64 (J) | 4.30(J) | 2/10 |
| Lead, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Mercury, total | <0.0002 | 0.00413 | 0.00466 | 0.00298 | 0.005/0.0005 |
| Nickel, total | 5.22 | 8.38 | 6.07 | 6.20 | 2 |
| Selenium, total | 37.8 | 60.2 | 40.9 | 62.0 | 5 |
| Silver, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Thallium, total | <0.500 | <0.500 | <0.500 | <0.500 | 0.5 |
| Zinc, total | 31.3 | 28.0 | 22.0 | 16.4 | 5.0 |

**TABLE 3 (Instructions, Page 58)**

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

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

**Table 3 for Outfall No.: 007** **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 | <14.3 | <14.3 | <14.3 | <14.3 | 50 |
| Anthracene | <0.0937 | <0.0938 | <0.935 | <0.0939 | 10 |
| Benzene | <0.460 | <0.460 | <0.460 | <0.460 | 10 |
| Benzidine | <0.446 | <0.446 | <4.45 | <0.447 | 50 |
| Benzo(a)anthracene | <0.0819 | <0.0821 | <0.818 | <0.0822 | 5 |
| Benzo(a)pyrene | <0.0699 | <0.0700 | <0.698 | <0.0701 | 5 |
| Bis(2-chloroethyl)ether | <0.214 | <0.214 | <2.14 | <0.215 | 10 |
| Bis(2-ethylhexyl)phthalate | <1.43 | <1.43 | <14.2 | <1.43 | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | <0.552 | <0.552 | <0.552 | 10 |
| Bromoform | <0.633 | <0.633 | <0.633 | <0.633 | 10 |
| Carbon tetrachloride | <0.896 | <0.896 | <0.896 | <0.896 | 2 |
| Chlorobenzene | <0.455 | <0.455 | <0.455 | <0.455 | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | <0.547 | <0.547 | <0.547 | 10 |
| Chloroform | | | | | 10 |
| Chrysene | <0.0814 | <0.0815 | <0.813 | <0.0817 | 5 |
| m-Cresol [3-Methylphenol] | <0.139 | <0.139 | <1.38 | <0.139 | 10 |
| o-Cresol [2-Methylphenol] | <0.105 | <0.105 | <1.04 | <0.105 | 10 |
| p-Cresol [4-Methylphenol] | <0.139 | <0.139 | <1.38 | <0.139 | 10 |
| 1,2-Dibromoethane | <0.999 | <0.999 | <0.999 | <0.999 | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <0.102 | <0.102 | <1.01 | <0.102 | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <0.0778 | <0.0779 | <0.777 | <0.0778 | 10 |
| 3,3'-Dichlorobenzidine | <0.183 | <0.183 | <1.83 | <0.183 | 5 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,2-Dichloroethane | <0.372 | <0.372 | <0.372 | <0.372 | 10 |
| 1,1-Dichloroethene [1,1-Dichloroethylene] | <0.738 | <0.738 | <0.738 | <0.738 | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | <1.73 | <1.73 | <1.73 | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | <1.27 | <1.27 | <1.27 | <1.27 | 10 |
| 2,4-Dimethylphenol | <0.192 | <0.192 | <1.92 | <0.192 | 10 |
| Di-n-Butyl phthalate | <1.43 | <1.43 | <14.2 | <1.43 | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | <0.385 | <0.385 | <0.385 | <0.385 | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 293(J) | 461 (J) | 475 (J) | 583 | 500 |
| Hexachlorobenzene | <0.0973 | <0.0975 | <0.972 | <0.0976 | 5 |
| Hexachlorobutadiene | <0.103 | <0.103 | <1.02 | <0.103 | 10 |
| Hexachlorocyclopentadiene | <0.218 | <0.218 | <2.18 | <0.219 | 10 |
| Hexachloroethane | <0.102 | <0.102 | <1.02 | <0.102 | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | <0.431 | 10.1 | <4.30 | <0.432 | 1 |
| Methyl ethyl ketone | <8.28 | <8.28 | <8.28 | <8.28 | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <0.0735 | <0.0736 | <0.734 | <0.0737 | 10 |
| N-Nitrosodiethylamine | <0.538 | <0.538 | <5.37 | <0.539 | 20 |
| N-Nitroso-di-n-butylamine | <0.515 | <0.516 | <5.14 | <0.516 | 20 |
| Nonylphenol | <2.86 | <2.60 | <12.8 | <2.50 | 333 |
| Pentachlorobenzene | <0.266 | <0.266 | <2.65 | <0.266 | 20 |
| Pentachlorophenol | <0.199 | <0.199 | <1.98 | <0.199 | 5 |
| Phenanthrene | <0.134 | <0.134 | <1.34 | <0.134 | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.078 | <0.0390 | <0.0390 | <0.195 | 0.2 |
| Pyridine | <1.44 | <1.44 | <14.3 | <1.44 | 20 |
| 1,2,4,5-Tetrachlorobenzene | <0.0956 | <0.0957 | <0.955 | <0.0959 | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | <0.470 | <0.470 | <0.470 | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Tetrachloroethene [Tetrachloroethylene] | <0.655 | <0.655 | <0.655 | <0.655 | 10 |
| Toluene | <0.475 | <0.475 | <0.475 | <0.475 | 10 |
| 1,1,1-Trichloroethane | <0.585 | <0.585 | <0.585 | <0.585 | 10 |
| 1,1,2-Trichloroethane | <0.411 | <0.411 | <0.411 | <0.411 | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | <1.50 | <1.50 | <1.50 | 10 |
| 2,4,5-Trichlorophenol | <0.143 | <0.143 | <1.43 | <0.143 | 50 |
| TTHM (Total trihalomethanes) | <0.633 | <0.633 | <0.633 | <0.633 | 10 |
| Vinyl chloride | <0.428 | <0.428 | <0.428 | <0.428 | 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.: 007** **Samples are (check one):** × **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1** | **Sample 2** | **Sample 3** | **Sample 4** | **MAL** |
|---|---|---|---|---|---|
| Tributyltin (µg/L) | <0.00161 | <0.00159 | <0.00154 | <0.00158 | 0.010 |
| Enterococci (cfu or MPN/100 mL) | | | | | N/A |
| *E. coli* (cfu or MPN/100 mL) | | | | | N/A |

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

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

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

× N/A

**Table 5 for Outfall No.:** **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 |

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

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 007** **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 | ☐ | ☐ | <7.4 | 5.9 | 3.29 | 2.39 | 400 |
| Color (PCU) | ☐ | ☐ | 30 | 20 | 100 | 40 | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | 3.22 | 2.33 | 1.37 | 1.75 | — |
| Sulfide (as S) | ☐ | ☐ | <0.0290 | <0.0290 | <0.0290 | <0.0290 | — |
| Sulfite (as SO3) | ☐ | ☐ | <5.0 | <5.0 | <5.0 | <5.0 | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 2.59 | 2.53 | 1.88 | 0.843 | 20 |
| Cobalt, total | ☐ | ☐ | 0.002 | <0.002 | 0.002 | <0.002 | 0.3 |
| Iron, total | ☐ | ☐ | 0.162 | 0.154 | 0.211 | 0.052 | 7 |
| Magnesium, total | ☐ | ☐ | 12.7 | 14.4 | 16.6 | 9.35 | 20 |
| Manganese, total | ☐ | ☐ | 0.0528 | 0.0272 | 0.0595 | 0.0169 | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.00789 | 0.116 | 0.0154 | 0.0105 | 1 |
| Tin, total | ☐ | ☐ | <0.002 | <0.002 | <0.002 | <0.002 | 5 |
| Titanium, total | ☐ | ☐ | <0.004 | <0.004 | <0.004 | <0.004 | 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.: 007** **Samples are (check one):** ☒ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | <11.1 | <11.1 | <11.1 | <11.1 | 50 |
| Acrylonitrile | <14.3 | <14.3 | <14.3 | <14.3 | 50 |
| Benzene | <0.460 | <0.460 | <0.460 | <0.460 | 10 |
| Bromoform | <0.633 | <0.633 | <0.633 | <0.633 | 10 |
| Carbon tetrachloride | <0.896 | <0.896 | <0.896 | <0.896 | 2 |
| Chlorobenzene | <0.455 | <0.455 | <0.455 | <0.455 | 10 |
| Chlorodibromomethane | <0.547 | <0.547 | <0.547 | <0.547 | 10 |
| Chloroethane | <1.98 | <1.98 | <1.98 | <1.98 | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [`] | <0.552 | <0.552 | <0.552 | <0.552 | 10 |
| 1,1-Dichloroethane | <0.635 | <0.635 | <0.635 | <0.635 | 10 |
| 1,2-Dichloroethane | <0.372 | <0.372 | <0.372 | <0.372 | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | <0.738 | <0.738 | <0.738 | <0.738 | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | <1.27 | <1.27 | <1.27 | <1.27 | 10 |
| Ethylbenzene | <0.385 | <0.385 | <0.385 | <0.385 | 10 |
| Methyl bromide [Bromomethane] | <1.42 | <1.42 | <1.42 | <1.42 | 50 |
| Methyl chloride [Chloromethane] | <2.04 | <2.04 | <2.04 | <2.04 | 50 |
| Methylene chloride [Dichloromethane] | <1.73 | <1.73 | <1.73 | <1.73 | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | <0.470 | <0.470 | <0.470 | 10 |
| Tetrachloroethylene [Tetrachloroethene] | <0.655 | <0.655 | <0.655 | <0.655 | 10 |
| Toluene | <0.475 | <0.475 | <0.475 | <0.475 | 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 | <0.585 | <0.585 | <0.585 | <0.585 | 10 |
| 1,1,2-Trichloroethane | <0.411 | <0.411 | <0.411 | <0.411 | 10 |
| Trichloroethylene [Trichloroethene] | <1.50 | <1.50 | <1.50 | <1.50 | 10 |
| Vinyl chloride | <0.428 | <0.428 | <0.428 | <0.428 | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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

☐ Yes ☐ No

Description:

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

**Table 12 for Outfall No.: 007** **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 | <0.997 | <0.997 | | | 10 |
| 1,2,3,7,8-PeCDD | 1.0 | <1.06 | <1.06 | | | 50 |
| 2,3,7,8-HxCDDs | 0.1 | <1.06 | <0.106 | | | 50 |
| 1,2,3,4,6,7,8-HpCDD | 0.01 | 18.6 (J q) | 0.186 (J q) | | | 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 | <1.75 | <0.175 | | | 10 |
| 1,2,3,7,8-PeCDF | 0.03 | <1.06 | <0.0318 | | | 50 |
| 2,3,4,7,8-PeCDF | 0.3 | <1.63 | <0.0489 | | | 50 |
| 2,3,7,8-HxCDFs | 0.1 | | 100 | | | 50 |
| 2,3,4,7,8-HpCDFs | 0.01 | | 150 | | | 50 |
| OCDD | 0.0003 | 65.0 (J B) | 0.0195 | | | 100 |
| OCDF | 0.0003 | 55.8 (J q) | 0.0167 | | | 100 |
| PCB 77 | 0.0001 | <4.42 | <0.000442 | | | 500 |
| PCB 81 | 0.0003 | <4.80 | <0.00144 | | | 500 |
| PCB 126 | 0.1 | <5.46 | <0.546 | | | 500 |
| PCB 169 | 0.03 | <3.22 | <0.0966 | | | 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.:** **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 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): 06/25/2025

b. X 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:**

## 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:**

**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.: 008** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| BOD (5-day) | 2.76 | | | |
| CBOD (5-day) | 2.22 | | | |
| Chemical oxygen demand | 21.4 | | | |
| Total organic carbon | 4.98 | | | |
| Dissolved oxygen | | | | |
| Ammonia nitrogen | 1.27 | | | |
| Total suspended solids | 14.9 | | | |
| Nitrate nitrogen | 0.250 | | | |
| Total organic nitrogen | 1.2 | | | |
| Total phosphorus | 0.177 | | | |
| Oil and grease | <1.57 | | | |
| Total residual chlorine | 0.313 | | | |

| Pollutant | Sample 1 (mg/L) | Sample 2 (mg/L) | Sample 3 (mg/L) | Sample 4 (mg/L) |
|---|---|---|---|---|
| Total dissolved solids | 1580.0 | | | |
| Sulfate | 631.0 | | | |
| Chloride | 146.0 | | | |
| Fluoride | 0.397(J) | | | |
| Total alkalinity (mg/L as CaCO3) | 108.0 | | | |
| Temperature (°F) | 74.12 | | | |
| pH (standard units) | 8.08 | | | |

**Table 2 for Outfall No.: 008** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L) | Sample 2 (µg/L) | Sample 3 (µg/L) | Sample 4 (µg/L) | MAL (µg/L) |
|---|---|---|---|---|---|
| Aluminum, total | 189.0 | | | | 2.5 |
| Antimony, total | 2.91 | | | | 5 |
| Arsenic, total | 3.35 | | | | 0.5 |
| Barium, total | 88.6 | | | | 3 |
| Beryllium, total | <0.500 | | | | 0.5 |
| Cadmium, total | <0.500 | | | | 1 |
| Chromium, total | <3.0 | | | | 3 |
| Chromium, hexavalent | 6.62 (J) | | | | 3 |
| Chromium, trivalent | <2.0 | | | | N/A |
| Copper, total | 7.58 | | | | 2 |
| Cyanide, available | 3.76(J) | | | | 2/10 |
| Lead, total | 2.01 | | | | 0.5 |
| Mercury, total | 0.0002(J) | | | | 0.005/0.0005 |
| Nickel, total | 7.55 | | | | 2 |
| Selenium, total | 4.16 | | | | 5 |
| Silver, total | <0.500 | | | | 0.5 |
| Thallium, total | <0.500 | | | | 0.5 |
| Zinc, total | 86.4 | | | | 5.0 |

**TABLE 3 (Instructions, Page 58)**

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

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

**Table 3 for Outfall No.: 008** **Samples are (check one): ☐ Composite X Grab**

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Acrylonitrile | <14.3 | | | | 50 |
| Anthracene | <0.0938 | | | | 10 |
| Benzene | <0.460 | | | | 10 |
| Benzidine | <0.446 | | | | 50 |
| Benzo(a)anthracene | <0.0821 | | | | 5 |
| Benzo(a)pyrene | <0.0700 | | | | 5 |
| Bis(2-chloroethyl)ether | <0.214 | | | | 10 |
| Bis(2-ethylhexyl)phthalate | <1.43 | | | | 10 |
| Bromodichloromethane [Dichlorobromomethane] | <0.552 | | | | 10 |
| Bromoform | <0.633 | | | | 10 |
| Carbon tetrachloride | <0.896 | | | | 2 |
| Chlorobenzene | <0.455 | | | | 10 |
| Chlorodibromomethane [Dibromochloromethane] | <0.547 | | | | 10 |
| Chloroform | | | | | 10 |
| Chrysene | <0.0815 | | | | 5 |
| m-Cresol [3-Methylphenol] | <0.139 | | | | 10 |
| o-Cresol [2-Methylphenol] | <0.105 | | | | 10 |
| p-Cresol [4-Methylphenol] | <0.139 | | | | 10 |
| 1,2-Dibromoethane | <0.999 | | | | 10 |
| m-Dichlorobenzene [1,3-Dichlorobenzene] | <0.102 | | | | 10 |
| o-Dichlorobenzene [1,2-Dichlorobenzene] | | | | | 10 |
| p-Dichlorobenzene [1,4-Dichlorobenzene] | <0.0779 | | | | 10 |
| 3,3'-Dichlorobenzidine | <0.183 | | | | 5 |
| 1,2-Dichloroethane | <0.372 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| 1,1-Dichloroethene [1,1-Dichloroethylene] | | | | | 10 |
| Dichloromethane [Methylene chloride] | <1.73 | | | | 20 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropene [1,3-Dichloropropylene] | <1.27 | | | | 10 |
| 2,4-Dimethylphenol | <0.192 | | | | 10 |
| Di-n-Butyl phthalate | <1.43 | | | | 10 |
| Epichlorohydrin (1-Chloro-2,3-epoxypropane) | | | | | --- |
| Ethylbenzene | <0.385 | | | | 10 |
| Ethylene Glycol | | | | | --- |
| Fluoride | 397(J) | | | | 500 |
| Hexachlorobenzene | <0.0975 | | | | 5 |
| Hexachlorobutadiene | <0.103 | | | | 10 |
| Hexachlorocyclopentadiene | <0.218 | | | | 10 |
| Hexachloroethane | <0.102 | | | | 20 |
| 4,4'-Isopropylidenediphenol (bisphenol A) | <0.431 | | | | 1 |
| Methyl ethyl ketone | <8.28 | | | | 50 |
| Methyl tert-butyl ether (MTBE) | | | | | --- |
| Nitrobenzene | <0.0736 | | | | 10 |
| N-Nitrosodiethylamine | <0.538 | | | | 20 |
| N-Nitroso-di-n-butylamine | <0.516 | | | | 20 |
| Nonylphenol | <2.50 | | | | 333 |
| Pentachlorobenzene | <0.266 | | | | 20 |
| Pentachlorophenol | <0.199 | | | | 5 |
| Phenanthrene | <0.134 | | | | 10 |
| Polychlorinated biphenyls (PCBs) (**) | <0.0390 | | | | 0.2 |
| Pyridine | <1.44 | | | | 20 |
| 1,2,4,5-Tetrachlorobenzene | <0.0957 | | | | 20 |
| 1,1,2,2-Tetrachloroethane | <0.470 | | | | 10 |
| Tetrachloroethene [Tetrachloroethylene] | <0.655 | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L)* |
|---|---|---|---|---|---|
| Toluene | <0.475 | | | | 10 |
| 1,1,1-Trichloroethane | <0.585 | | | | 10 |
| 1,1,2-Trichloroethane | <0.411 | | | | 10 |
| Trichloroethene [Trichloroethylene] | <1.50 | | | | 10 |
| 2,4,5-Trichlorophenol | <0.143 | | | | 50 |
| TTHM (Total trihalomethanes) | <0.633 | | | | 10 |
| Vinyl chloride | <0.428 | | | | 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 X 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 X No

Domestic wastewater is/will be discharged.

☐ Yes X No

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

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

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

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

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

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

X N/A

**Table 5 for Outfall No.:** **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 |

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)*** |
|---|---|---|---|---|---|
| Dicofol [Kelthane] | | | | | 1 |
| Dieldrin | | | | | 0.02 |
| Diuron | | | | | 0.090 |
| Endosulfan I (*alpha*) | | | | | 0.01 |
| Endosulfan II (*beta*) | | | | | 0.02 |
| Endosulfan sulfate | | | | | 0.1 |
| Endrin | | | | | 0.02 |
| Guthion [Azinphos methyl] | | | | | 0.1 |
| Heptachlor | | | | | 0.01 |
| Heptachlor epoxide | | | | | 0.01 |
| Hexachlorocyclohexane (*alpha*) | | | | | 0.05 |
| Hexachlorocyclohexane (*beta*) | | | | | 0.05 |
| Hexachlorocyclohexane (*gamma*) [Lindane] | | | | | 0.05 |
| Hexachlorophene | | | | | 10 |
| Malathion | | | | | 0.1 |
| Methoxychlor | | | | | 2.0 |
| Mirex | | | | | 0.02 |
| Parathion (ethyl) | | | | | 0.1 |
| Toxaphene | | | | | 0.3 |
| 2,4,5-TP [Silvex] | | | | | 0.3 |

* Indicate units if different from µg/L.

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

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

**Table 6 for Outfall No.: 008** **Samples are (check one): ☐ Composite X 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 | ☐ | ☐ | <1.4 | | | | 400 |
| Color (PCU) | ☐ | ☐ | 30.0 | | | | — |
| Nitrate-Nitrite (as N) | ☐ | ☐ | 0.300 | | | | — |
| Sulfide (as S) | ☐ | ☐ | <0.290 | | | | — |
| Sulfite (as SO3) | ☐ | ☐ | <5.00 | | | | — |
| Surfactants | ☐ | ☐ | | | | | — |
| Boron, total | ☐ | ☐ | 0.285 | | | | 20 |
| Cobalt, total | ☐ | ☐ | <0.002 | | | | 0.3 |
| Iron, total | ☐ | ☐ | 1.220 | | | | 7 |
| Magnesium, total | ☐ | ☐ | 7.070 | | | | 20 |
| Manganese, total | ☐ | ☐ | 0.132 | | | | 0.5 |
| Molybdenum, total | ☐ | ☐ | 0.0138 | | | | 1 |
| Tin, total | ☐ | ☐ | <0.002 | | | | 5 |
| Titanium, total | ☐ | ☐ | <0.004 | | | | 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.:** **Samples are (check one):** ☐ **Composite** ☐ **Grab**

| **Pollutant** | **Sample 1 (µg/L)*** | **Sample 2 (µg/L)*** | **Sample 3 (µg/L)*** | **Sample 4 (µg/L)*** | **MAL (µg/L)** |
|---|---|---|---|---|---|
| Acrolein | | | | | 50 |
| Acrylonitrile | | | | | 50 |
| Benzene | | | | | 10 |
| Bromoform | | | | | 10 |
| Carbon tetrachloride | | | | | 2 |
| Chlorobenzene | | | | | 10 |
| Chlorodibromomethane | | | | | 10 |
| Chloroethane | | | | | 50 |
| 2-Chloroethylvinyl ether | | | | | 10 |
| Chloroform | | | | | 10 |
| Dichlorobromomethane [Bromodichloromethane] | | | | | 10 |
| 1,1-Dichloroethane | | | | | 10 |
| 1,2-Dichloroethane | | | | | 10 |
| 1,1-Dichloroethylene [1,1-Dichloroethene] | | | | | 10 |
| 1,2-Dichloropropane | | | | | 10 |
| 1,3-Dichloropropylene [1,3-Dichloropropene] | | | | | 10 |
| Ethylbenzene | | | | | 10 |
| Methyl bromide [Bromomethane] | | | | | 50 |
| Methyl chloride [Chloromethane] | | | | | 50 |
| Methylene chloride [Dichloromethane] | | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | | 10 |
| Tetrachloroethylene [Tetrachloroethene] | | | | | 10 |
| Toluene | | | | | 10 |
| 1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene] | | | | | 10 |

| Pollutant | Sample 1 (µg/L)* | Sample 2 (µg/L)* | Sample 3 (µg/L)* | Sample 4 (µg/L)* | MAL (µg/L) |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | | | 10 |
| 1,1,2-Trichloroethane | | | | | 10 |
| Trichloroethylene [Trichloroethene] | | | | | 10 |
| Vinyl chloride | | | | | 10 |

* Indicate units if different from µg/L.

**Table 9 for Outfall No.:** **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.:** **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.:** **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:**

**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:

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

☐ Yes ☐ No

Description:

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

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

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

# Worksheet 4.0
# Receiving Waters

# INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications. **Outfalls: 006, 007, 010**

## 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:

2. The distance and direction from the outfall to the drinking water supply intake:

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

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

## 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: 1,300 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:

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:

## 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:

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

☐ Lake or Pond

- Surface area (acres):
- Average depth of the entire water body (feet):
- Average depth of water body within a 500-foot radius of the discharge point (feet):

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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:

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

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:

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

Date and time of observation:

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

☐ Yes ☐ No

If **yes**, describe how:

## 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:

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:

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 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications. **Outfalls: 002, 003, 004, & 009**

## Item 6. Domestic Drinking Water Supply (Instructions, Page 80)

d. 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:

3. The legal name of the owner of the drinking water supply intake:

4. The distance and direction from the outfall to the drinking water supply intake:

e. 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 7. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

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

f. Width of the receiving water at the outfall: 002 = 43 ft; 003 = 280 ft; 004 = 200 ft; 009 = 505 ft

g. 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:

h. 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:

## Item 8. 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 9. Description of Immediate Receiving Waters (Instructions, Page 80)

i. Name of the immediate receiving waters:

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

☐ Lake or Pond

- Surface area (acres):
- Average depth of the entire water body (feet):
- Average depth of water body within a 500-foot radius of the discharge point (feet):

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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

k. 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:

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

m. 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:

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

Date and time of observation:

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

☐ Yes ☐ No

If **yes**, describe how:

## Item 10. General Characteristics of Water Body (Instructions, Page 81)

p. 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:

q. 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:

r. 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 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications. **Outfall: 008**

## Item 11. Domestic Drinking Water Supply (Instructions, Page 80)

s. 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:

5. The legal name of the owner of the drinking water supply intake:

6. The distance and direction from the outfall to the drinking water supply intake:

t. 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 12. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

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

u. Width of the receiving water at the outfall: 70 feet

v. 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:

w. 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:

## Item 13. 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 14. Description of Immediate Receiving Waters (Instructions, Page 80)

x. Name of the immediate receiving waters:

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

☐ Lake or Pond

- Surface area (acres):
- Average depth of the entire water body (feet):
- Average depth of water body within a 500-foot radius of the discharge point (feet):

☐ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☒ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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

z. 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: Google Earth

aa. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Houston Ship Channel

bb. 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: Wide tidal body

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

Date and time of observation: NA

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

☐ Yes ☐ No

If **yes**, describe how:

## Item 15. General Characteristics of Water Body (Instructions, Page 81)

ee. 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: Industrial Activity

ff. 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: None

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

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

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

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

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

# Attachment A
# EPay Voucher

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 780563 |
| **Trace Number:** | 582EA000682221 |
| **Date:** | 08/22/2025 02:33 PM |
| **Payment Method:** | CC - Authorization 0000236568 |
| **Voucher Amount:** | $2,000.00 |
| **Fee Type:** | WW PERMIT - MAJOR INDUSTRIAL FACILITY - MAJOR AMENDMENT |
| **ePay Actor:** | ASHISH JAIN |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | ASHISH JAIN |
| **Company:** | DEER PARK REFINING LP |
| **Address:** | 5900 HWY 225, DEER PARK, TX 77479 |
| **Phone:** | 848-459-8088 |

**Site Information**

| | |
|---|---|
| **Site Name:** | DEER PARK OIL REFINERY |
| **Site Address:** | 5900 HWY 225, DEER PARK, TX 77536 |
| **Site Location:** | 5900 HWY 225 DEER PARK TX 77536 |

**Customer Information**

| | |
|---|---|
| **Customer Name:** | DEER PARK REFINING LP |
| **Customer Address:** | PO BOX 1915, DEER PARK, TX 77536 |
| **State Tax ID:** | 32036452913 |

**Other Information**

| | |
|---|---|
| **Program Area ID:** | WQ0000403000 |

# TCEQ ePay Voucher Receipt

**Transaction Information**

| | |
|---|---|
| **Voucher Number:** | 780564 |
| **Trace Number:** | 582EA000682221 |
| **Date:** | 08/22/2025 02:33 PM |
| **Payment Method:** | CC - Authorization 0000236568 |
| **Voucher Amount:** | $50.00 |
| **Fee Type:** | 30 TAC 305.53B WQ NOTIFICATION FEE |
| **ePay Actor:** | ASHISH JAIN |

**Payment Contact Information**

| | |
|---|---|
| **Name:** | ASHISH JAIN |
| **Company:** | DEER PARK REFINING LP |
| **Address:** | 5900 HWY 225, DEER PARK, TX 77479 |
| **Phone:** | 848-459-8088 |

# Attachment B
# Core Data Form

TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

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

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

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

☐ Other - major amendement

| **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 602641664** | | **RN 111372785** |

## SECTION II: Customer Information

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

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

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

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

Deer Park Refining Limited Partnership

| **7. TX SOS/CPA Filing Number** | **8. TX State Tax ID** (11 digits) | **9. Federal Tax ID** (9 digits) | **10. DUNS Number** *(if applicable)* |
|---|---|---|---|
| 0006746811 | 32036452913 | | |

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

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

**12. Number of Employees**

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

**13. Independently Owned and Operated?**

☒ **Yes** ☐ **No**

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

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **15. Mailing Address:** | PO BOX 1915 | | | | | | | |
| | **City** | Deer Park | **State** | TX | **ZIP** | 77536 | **ZIP + 4** | 1900 |

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

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 713 ) 246-6931 | N/A | **N/A** |

## SECTION III: Regulated Entity Information

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

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

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

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

Deer Park Oil Refinery

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | 5900 Hwy 225 | | | | | | | |
| | | | | | | | | |
| | **City** | Deer Park | **State** | TX | **ZIP** | 77536 | **ZIP + 4** | 2434 |
| **24. County** | Harris | | | | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| **25. Description to Physical Location:** | N/A | | | | |
| **26. Nearest City** | | | **State** | **Nearest ZIP Code** | |
| Deer Park | | | TX | 77536 | |

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

| **27. Latitude (N) In Decimal:** | | | **28. Longitude (W) In Decimal:** | | |
|---|---|---|---|---|---|
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 29 | 43 | 08 | -95 | 07 | 21 |

| **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) |
|---|---|---|---|
| 2911 | | 32411 | |

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

Refining and Petrochemical Manufacturing

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | **5900 Hwy 225** | | | | | | | |
| | | | | | | | | |
| | **City** | **Deer Park** | **State** | **TX** | **ZIP** | **77536** | **ZIP + 4** | **2434** |

| **35. E-Mail Address:** | **ashish.jain@deerparkrefinery.com** |
|---|---|

| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
|---|---|---|
| **( 713 ) 246-6931** | **N/A** | **( N/A ) -** |

**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 |
| | | | See Attached | See Attached |
| ☐ Municipal Solid Waste | ☒ New Source Review Air | ☐ OSSF | ☒ Petroleum Storage Tank | ☒ PWS |
| | See Attached | | See Attached | See Attached |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☒ Wastewater WQ0000403000 | ☐ Wastewater Agriculture | ☐ Water Rights | ☒ Other: |
| | See Attached | | | See Attached |

## SECTION IV: Preparer Information

| 40. Name: | Kara Denney | 41. Title: | Senior Compliance Specialist |
|---|---|---|---|

| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
|---|---|---|---|
| ( 512 ) 632-9915 | N/A | ( N/A ) - | kfdenney@burnsmcd.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: | PEMEX Deer Park (Deer Park Refining Limited Partnership) | Job Title: | CEO |
|---|---|---|---|
| Name *(In Print)*: | Guy Hackwell | Phone: | (713)903 9915 |
| Signature: |  | Date: | 8/25/2025 |

**Attachment B**
**Core Data Form**

**Core Data Form, Item 39. TCEQ Programs and ID Numbers**

| Program | ID Type | ID Number | Status |
|---|---|---|---|
| AIR EMISSIONS INVENTORY | ACCOUNT NUMBER | HGA226S | ACTIVE |
| AIR NEW SOURCE PERMITS | AFS NUM | 4820102076 | ACTIVE |
| AIR NEW SOURCE PERMITS | EPA PERMIT | PSDTX815 | ACTIVE |
| AIR NEW SOURCE PERMITS | EPA PERMIT | PSDTX928 | ACTIVE |
| AIR NEW SOURCE PERMITS | EPA PERMIT | PSDTX928M1 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 21262 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 22038 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 3178 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 5801 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 6791 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 7855 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 8236 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | 9334 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | AMOC137 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | AMOC185 | ACTIVE |
| AIR NEW SOURCE PERMITS | PERMIT | AMOC63 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 11096 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 11586 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 12152 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 12373 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 162924 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 165188 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 169716 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 171115 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 171838 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 172561 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 176065 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 179687 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 77952 | ACTIVE |
| AIR NEW SOURCE PERMITS | REGISTRATION | 81971 | ACTIVE |
| AIR OPERATING PERMITS | PERMIT | 1669 | ACTIVE |
| INDUSTRIAL AND HAZARDOUS WASTE | EPA ID | TXR000085805 | ACTIVE |
| INDUSTRIAL AND HAZARDOUS WASTE | PERMIT | 50422 | ACTIVE |
| INDUSTRIAL AND HAZARDOUS WASTE | SOLID WASTE REGISTRATION # (SWR) | 98163 | ACTIVE |
| IHW CORRECTIVE ACTION | SOLID WASTE REGISTRATION # (SWR) | 98163 | ACTIVE |

**Attachment B**

**Core Data Form**

| Program | ID Type | ID Number | Status |
|---|---|---|---|
| POLLUTION PREVENTION PLANNING | ID NUMBER | P10908 | ACTIVE |
| PETROLEUM STORAGE TANK REGISTRATION | REGISTRATION | 32780 | ACTIVE |
| PUBLIC WATER SYSTEM/SUPPLY | REGISTRATION | 1010320 | ACTIVE |
| PETROLEUM STORAGE TANK STAGE II | REGISTRATION | 32780 | ACTIVE |
| WATER QUALITY NON PERMITTED | ID NUMBER | RN109947101 | ACTIVE |
| WASTEWATER | EPA ID | TX0004871 | ACTIVE |
| WASTEWATER | PERMIT | TXG670472 | ACTIVE |
| WASTEWATER | PERMIT | WQ0000403000 | ACTIVE |

# Attachment C
# Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

## Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

**ENGLISH TEMPLATE FOR TPDES RENEWAL WITH AMENDMENT APPLICATIONS FOR INDUSTRIAL WASTEWATER**

Deer Park Refining Limited Partnership (CN602641664) operates Deer Park Refining (RN111372785), a Petroleum Refinery. The facility is located at 5900 Deer Park, in Deer Park, Harris County, Texas 77536. This is an application for a renewal with amendment to authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108; authorize the discharge of non-process wastewaters from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108; authorize the discharge of ballast water from Outfall 008 and internal Outfall 108; reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 003, 004, 006, 007, 107, 008, 009, and 010; add new internal Outfall 208 to monitor the discharge of refinery process wastewaters from system upsets during extreme precipitation events before discharge via Outfall 008; revise Technology-Based Effluent Limits at Outfall 007; include a second phase for Outfall 007 for a future increase in production capacity and revise the TBELs at Outfall 007 accordingly; allow the use of algicide treatment in the ditch that flows to Outfall 008; include a definition of utility wastewaters; revise Other Requirement No. 10.A language for clarity and consistency; remove Outfall 001 from the permit; remove internal Outfall 207; and remove waste streams and associated effluent limitations from Outfall 007.

Discharges from the facility are expected to contain total organic carbon; oil and grease; mercury; copper (total); biological oxygen demand (5-day); total suspended solids; phenols; ammonia; sulfide; chromium (total); chromium (hexavalent); Enterococci; nitrogen (total); phosphorus (total); nickel (total); acenaphthene; dioxins and furans (TCDD); total petroleum hydrocarbons; benzene; total BTEX; lead (total); and pH.. Stormwater, non-process wastewater, hydrostatic test water from vessels that previously contained hydrocarbons, and firewater are treated in onsite ponds for settling of solids and discharged via Outfalls 002, 003, 004, 006 and 009. Process wastewater, non-process wastewater, domestic wastewater, ballast water, landfill leachate, and stormwater are treated by the North Effluent Treatment System which consists of primary treatment with dissolved nitrogen flotation and wet surface air cooler; biological treatment with aeration basins and clarifiers; and tertiary treatment from sand filters before discharged via Outfall 007. Contaminated stormwater, stormwater, non-process wastewater, hydrostatic test water from vessels that previously contained hydrocarbons, and firewater are routed to a series of ponds before discharge via Outfalls 008 and 010.

**PLANTILLA EN ESPAÑOL PARA SOLICITUDES RENOVACIONES CON ENMIENDAS DE TPDES PARA AGUAS RESIDUALES INDUSTRIALES**

Deer Park Refining Limited Partnership (CN602641664) opera Deer Park Refining (RN111372785), una refinería de petróleo. La instalación está ubicada en 5900 Deer Park, en Deer Park, Condado de Harris, Texas 77536. Esta es una solicitud de renovación con enmienda para autorizar la descarga de agua de prueba hidrostática de embarcaciones previamente en servicio de hidrocarburos desde los Emisarios 002, 003, 004, 006, 008, 009 y el Emisario interno 108; autorizar la descarga de aguas residuales no de proceso de los Emisarios 004, 006, 008, 009, 010 y del Emisario interno 108; autorizar la descarga de agua de lastre del Emisario 008 y Emisario interno 108; reducir la frecuencia de monitoreo de las limitaciones de efluentes y los requisitos de monitoreo en los Emisarios 002, 003, 003, 004, 006, 007, 107, 008, 009 y 010; agregar un nuevo Emisario interno 208 para monitorear la descarga de aguas residuales de procesos de refinería debido a alteraciones del sistema durante eventos de precipitación extrema antes de la descarga a través del Emisario 008; revisar los límites de efluentes basados en tecnología en el emisario 007; incluir una segunda fase para el Emisario 007 para un aumento futuro en la capacidad de producción y revisar los TBEL en el Emisario 007 en consecuencia; permitir el uso de tratamiento alguicida en el dique que desemboca al Emisario 008; incluir una definición de aguas residuales de servicios públicos; revisar el Otro Requisito No. 10. Un lenguaje para mayor claridad y coherencia; eliminar el Emisario 001 del permiso; eliminar el emisario interno 207; y eliminar los flujos de desechos y las limitaciones de efluentes asociados del Emisario 007.

Se espera que las descargas de la instalación contengan carbono orgánico total; aceite y grasa; mercurio; cobre (total); demanda biológica de oxígeno (5 días); sólidos suspendidos totales; fenoles; amoníaco; sulfuro; cromo (total); cromo (hexavalente); enterococos; nitrógeno (total); fósforo (total); níquel (total); acenafteno; dioxinas y furanos (TCDD); hidrocarburos totales del petróleo; benceno; BTEX totales; plomo (total); y pH. Las aguas pluviales, las aguas residuales que no son de proceso, el agua de prueba hidrostática de embarcaciones que anteriormente contenían hidrocarburos y el agua contra incendios se tratan en estanques en el sitio para la sedimentación de sólidos y se descargan a través de los emisarios 002, 003, 004, 006 y 009. Las aguas residuales de proceso, las aguas residuales que no son de proceso, las aguas residuales domésticas, los lixiviados de vertederos y las aguas pluviales se tratan mediante el Sistema de Tratamiento de Efluentes del Norte, que consiste en un tratamiento primario con flotación de nitrógeno disuelto y enfriador de aire de superficie húmeda; tratamiento biológico con balsas de aireación y clarificadores; y tratamiento terciario a partir de filtros de arena antes de su descarga a través del Emisario 007. Las aguas pluviales contaminadas, las aguas pluviales, las aguas residuales no procesadas, el agua de prueba hidrostática de embarcaciones que anteriormente contenían hidrocarburos y el agua contra incendios se dirigen a una serie de estanques antes de su descarga a través de los misarios 008 y 010.

# Attachment D
# Public Involvement Plan

Texas Commission on Environmental Quality

# Public Involvement Plan Form for Permit and Registration Applications

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

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

## Section 1. Preliminary Screening

☐ New Permit or Registration Application

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

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

## Section 2. Secondary Screening

☒ Requires public notice,

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

☒ Located within any of the following geographical locations:

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

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

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

This application has not previously had considerable public interest. Additionally, two public notices will be published in both an English and Spanish language newspaper of local circulation in the county.

## Section 3. Application Information

**Type of Application (check all that apply):**

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

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

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

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

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

## Section 4. Plain Language Summary

Provide a brief description of planned activities.

## Section 5. Community and Demographic Information

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

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

(City)

(County)

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

☐ City ☐ County ☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

## Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

## Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

# Attachment E
# USGS Map

Path: C:\Projects\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment.aprx RKumari 7/25/2025

Service Layer Credits:

Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

Issued: 7/25/2025

- Outfalls
- SWQM Stations
- Wells
- Upstream/Downstream Marker
- 3-Mile Discharge Route
- Property owned by PEMEX
- Facility Boundary
- One Mile Facility Radius

NORTH

2,000 1,000 0 2,000

Scale in Feet

BURNS McDONNELL

ATTACHMENT E
USGS MAP
PERMIT NO. WQ0000403000
AMENDMENT
PEMEX DEER PARK
HARRIS COUNTY, TEXAS

# Attachment F
# Affected Landowners

Path: C:\Projects\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment.aprx RKumari 7/25/2025
Service Layer Credits: Hybrid Reference Layer: City of Houston, HPB, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Outfalls
Facility Boundary
Property owned by PEMEX
Adjacent Landowners
Half-Mile Discharge Radius

NORTH
2,000 1,000 0 2,000
Scale in Feet

BURNS McDONNELL

ATTACHMENT F
AFFECTED LANDOWNER MAP
PERMIT NO. WQ0000403000
AMENDMENT
PEMEX DEER PARK
HARRIS COUNTY, TEXAS

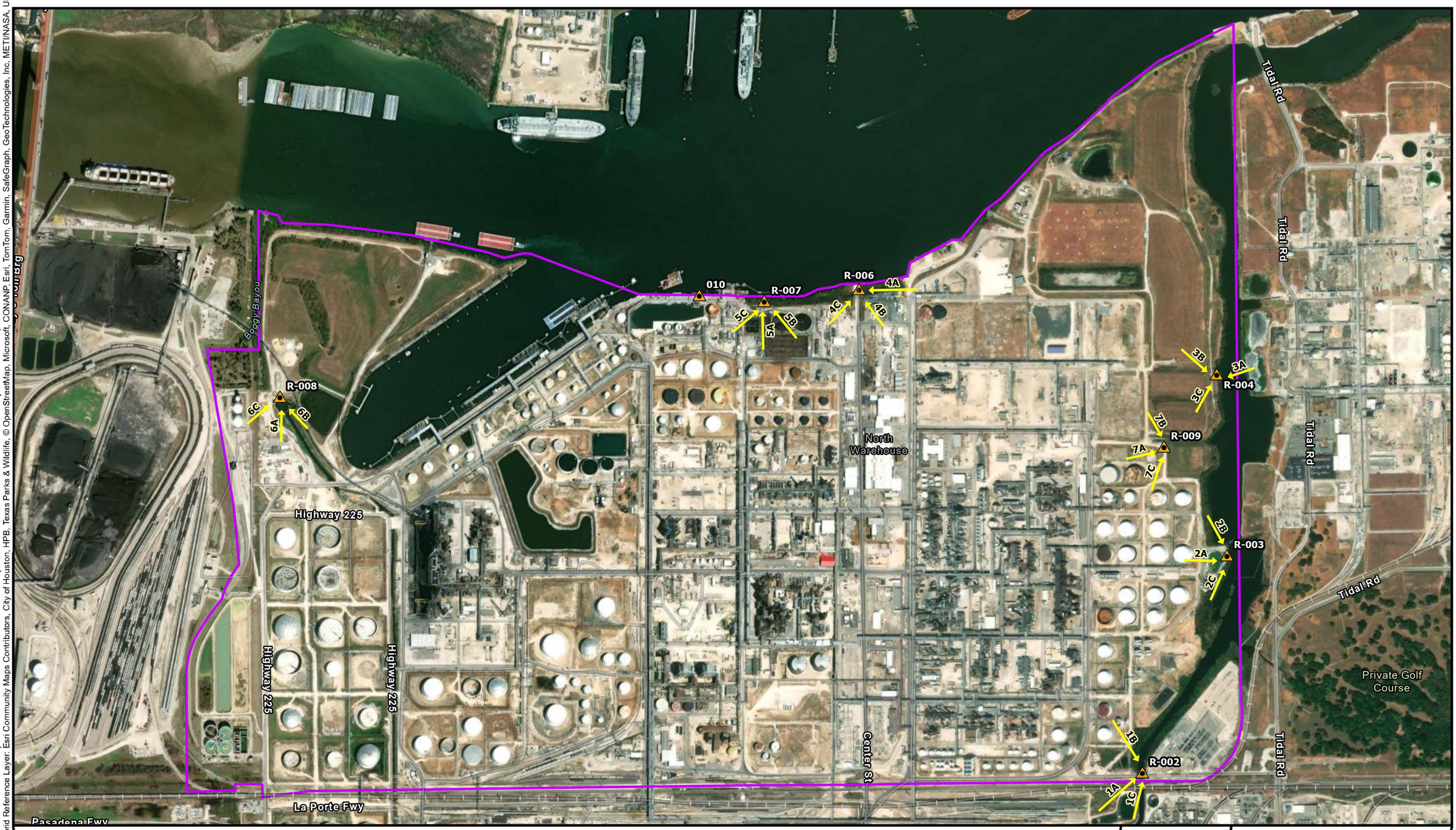
Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

Issued: 7/25/2025

# Attachment F
# Adjacent Landowner List

| MAPID | OWNER NAME | ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|---|---|
| 1 | TARPON LAND HOLDINGS LLC | 15902 PENINSULA ST, HOUSTON, TX 77015 | HOUSTON | TX | 77015 |
| 2 | BROWN BRIAN OMAR | PO BOX 5626 | HOUSTON | TX | 77015 |
| 3 | CENTERPOINT ENERGY HOU ELE | 0 SOUTH AVE, PASADENA, TX 77536 | DEER PARK | TX | 77015 |
| 4 | GERMAN JUAN M III | 5600 HIGHWAY 225 | DEER PARK | TX | 77536 |
| 5 | HOUSTON PENINSULA LLC | 16150 PENINSULA ST | HOUSTON | TX | 77015 |
| 6 | KINDER MORGAN LIQUIDS | 4155 LA PORTE FWY, PASADENA, TX 77536 | DEER PARK | TX | 77536 |
| 7 | KINDER MORGAN PETCOKE LP | 4207 LA PORTE FWY | DEER PARK | TX | 77536 |
| 8 | KINDER MORGAN TEXAS TERMINALS LP | 4155 LA PORTE FWY, PASADENA, TX 77536 | DEER PARK | TX | 77536 |
| 9 | LUBRIZOL CORP | 41 TIDAL RD | DEER PARK | TX | 77536 |
| 10 | MARQUEE REALTY | 16150 PENINSULA ST | HOUSTON | TX | 77015 |
| 11 | MERGED SHELL PLANT | 5600 HIGHWAY 225 | DEER PARK | TX | 77536 |
| 12 | MIDCON TEXAS PIPELINE CORP | 0 S ST, PASADENA, TX 77536 | DEER PARK | TX | 77536 |
| 13 | OILTANKING HOUSTON INC | 15602 JACINTOPORT BLVD, HOUSTON, TX 77015 | HOUSTON | TX | 77015 |
| 14 | OWNERS OF HIDDEN MEADOW | 16150 PENINSULA ST | HOUSTON | TX | 77015 |
| 15 | OXY VINYLS LP | 5600 HIGHWAY 225 | DEER PARK | TX | 77536 |
| 16 | PORT OF HOUSTON AUTHORITY | 0 E SAM HOUSTON PKY S, PASADENA, TX 77536 | DEER PARK | TX | 77536 |
| 17 | SHELL OIL CO | 5600 LA PORTE FWY | DEER PARK | TX | 77536 |
| 18 | STOLT NIELSEN INC | 15635 JACINTOPORT BLVD , HOUSTON, TX 77015-6534 | HOUSTON | TX | 77015 |
| 19 | STOLT TERMINAL HOUSTON INC | 15602 JACINTOPORT BLVD | HOUSTON | TX | 77015 |

# Attachment G
# Original Photo Map




Path: C:\Projects\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment.aprx RKumari 7/25/2025
Service Layer Credits: Hybrid Reference Layer: Esri Community Maps Contributors, City of Houston, HPB, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS

**Attachment G**
**Original Photo Map**

## PHOTO 1A – Outfall R002


Photo shows northeast at R002 outfall discharge structure on Patrick Bayou.

**Attachment G**
**Original Photo Map**

# PHOTO 1B – Outfall R002

Photo shows upstream (southeast toward Patrick Bayou).

**Attachment G**
**Original Photo Map**

# PHOTO 1C – Outfall R002

Photo shows downstream (northeast towards Patrick Bayou).

**Attachment G**
**Original Photo Map**

## PHOTO 2A – Outfall R003

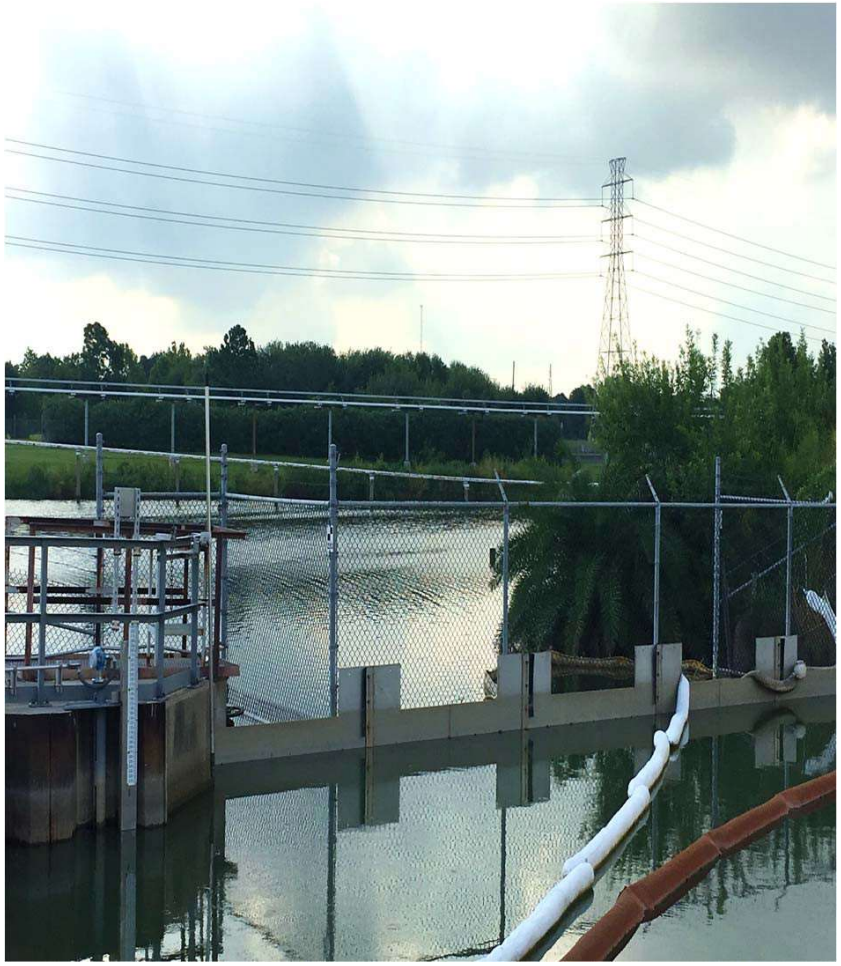


Photo shows east of the outfall discharge structure towards Patrick Bayou.

**Attachment G**
**Original Photo Map**

# PHOTO 2B – Outfall R003

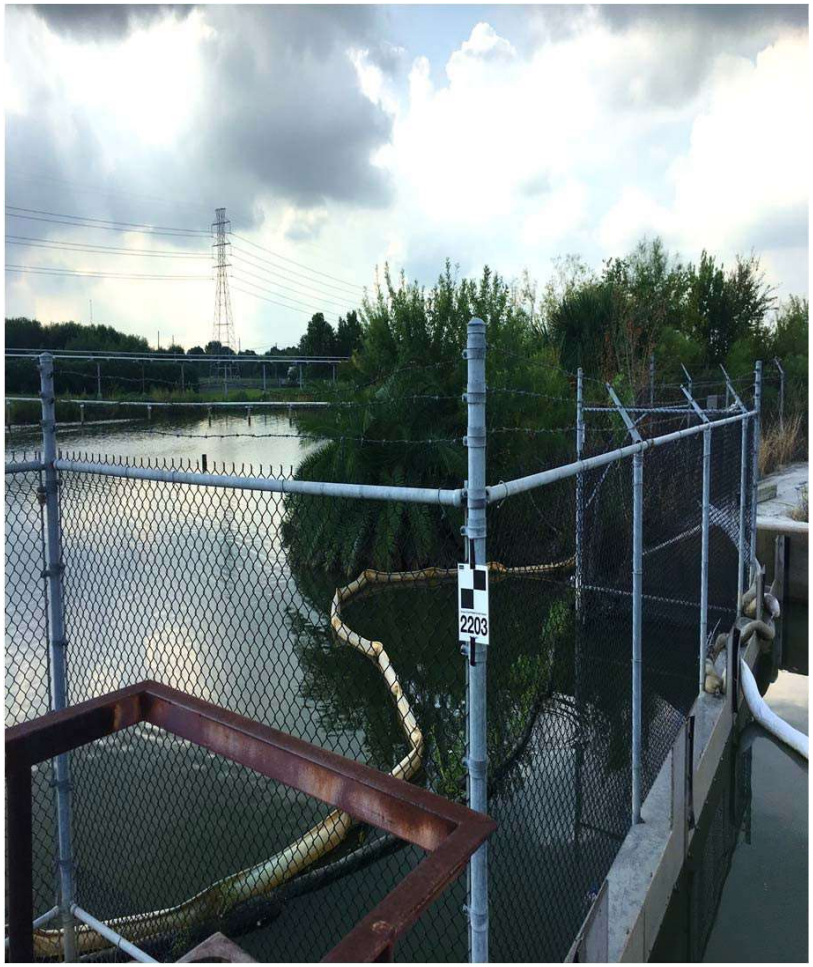



Photo shows upstream (southeast towards Patrick Bayou).

**Attachment G**
**Original Photo Map**

# PHOTO 2C – Outfall R003

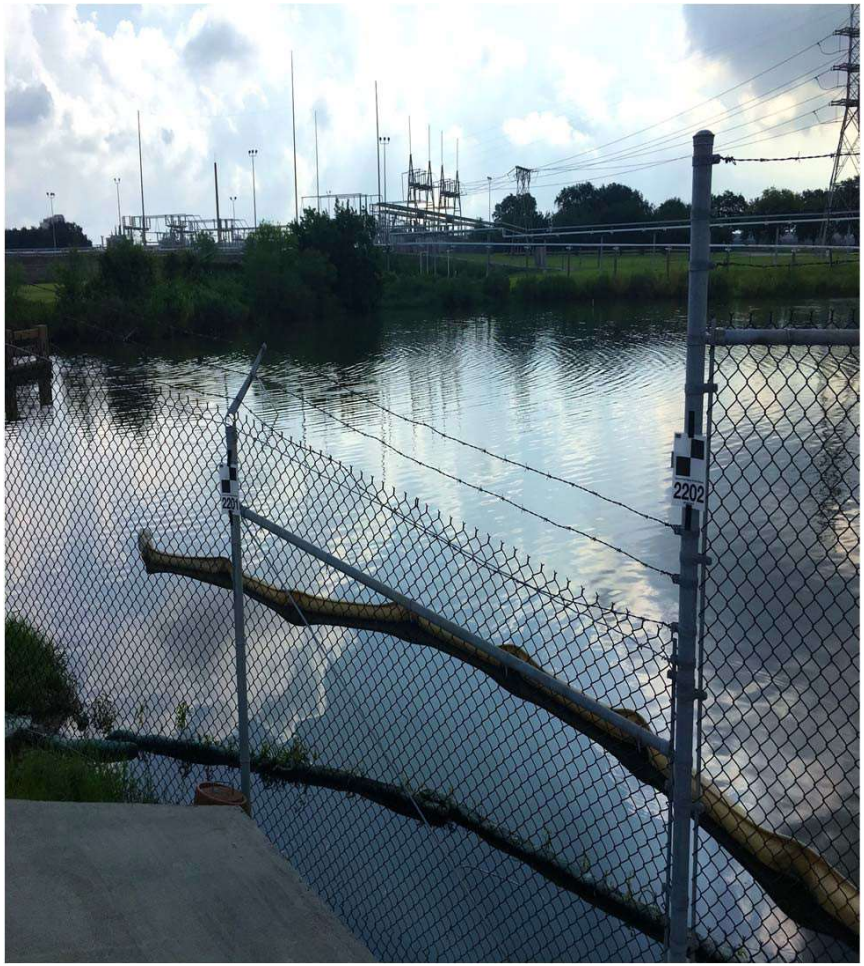



Photo shows downstream (northeast towards Patrick Bayou).

**Attachment G**
**Original Photo Map**

## PHOTO 3A – Outfall R004

Photo shows southwest (Patrick Bayou in the back) of the outfall discharge structure.

**Attachment G**
**Original Photo Map**

# PHOTO 3B – Outfall R004

Photo shows upstream (southeast towards Patrick Bayou).

**Attachment G**
**Original Photo Map**

## PHOTO 3C – Outfall R004

Photo shows downstream (northeast towards Patrick Bayou).

**Attachment G**
**Original Photo Map**

## PHOTO 4A – Outfall R006

Photo shows west of the outfall discharge structure towards Houston Ship Channel.

**Attachment G**
**Original Photo Map**

## PHOTO 4B – Outfall R006

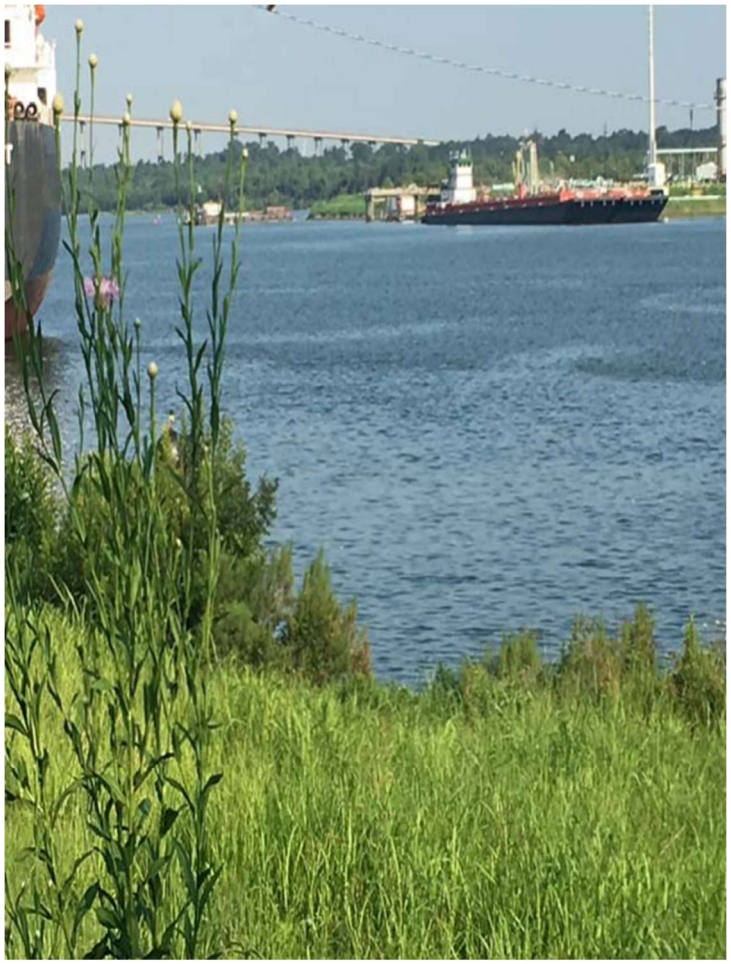


Photo shows upstream (northwest towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

# PHOTO 4C – Outfall R006

Photo shows downstream (northeast at Houston Ship Channel).

**Attachment G**
**Original Photo Map**

## PHOTO 5A – Outfall R007


Photo shows north of the outfall on Houston Ship Channel.

**Attachment G**
**Original Photo Map**

# PHOTO 5B – Outfall R007

Photo shows upstream (northeast towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

# PHOTO 5C – Outfall R007

Photo shows downstream (northwest towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

## PHOTO 6A – Outfall R008

Photo shows north of the outfall discharge structure.

**Attachment G**
**Original Photo Map**

# PHOTO 6B – Outfall R008

Photo shows upstream (northwest towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

# PHOTO 6C – Outfall R008

Photo shows downstream (northeast towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

## PHOTO 7A – Outfall R009


Photo shows east of the outfall discharge structure towards Houston Ship Channel.

**Attachment G**
**Original Photo Map**

## PHOTO 7B – Outfall R009

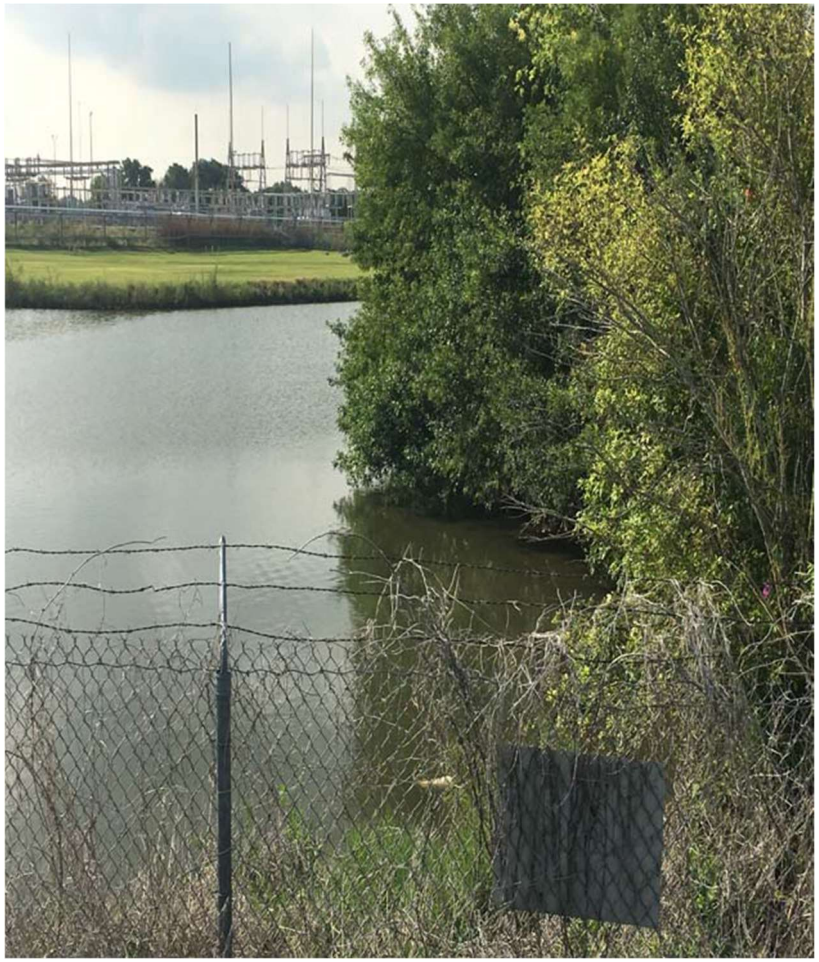


Photo shows upstream (southeast towards Houston Ship Channel).

**Attachment G**
**Original Photo Map**

# PHOTO 7C – Outfall R009

Photo shows downstream (northeast at Houston Ship Channel).

# Attachment H
# Supplemental Permit Information Form (SPIF)

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

## FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

**TCEQ USE ONLY:**

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

**This form applies to TPDES permit applications only.** (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

**Do not refer to your response to any item in the permit application form**. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Deer Park Refining Limited Partnership

   Permit No. WQ00 0403000 EPA ID No. TX 0004871

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

   5900 Hwy 225, Deer Park, Harris County, Texas 77536

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: Jain Ashish

Credential (P.E, P.G., Ph.D., etc.): CSP, CHMM

Title: Environmental Engineer

Mailing Address: 5900 Hwy 225

City, State, Zip Code: Deer Park, TX 77536

Phone No.: 713-246-6931 Ext.: N/A Fax No.: N/A

E-mail Address: ashish.jain@deerparkrefinery.com

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

N/A

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

Via Outfalls 002, 003, 004, and 009 to the Patrick Bayou Tidal portion of the Houston Ship Channel Tidal ; via Outfalls 006, 007, and 010 directly to the Houston Ship Channel Tidal ; and via Outfall 008 to the Boggy Bayou Tidal portion of the Houston Ship Channel Tidal in Segment No. 1006 of the San Jacinto River Basin

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

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:

N/A

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

Facility has been in production since pre-1984.

Houston/Galveston Navigation Channel

Houston Ship Channel

Buffalo Bayou

Patrick Bayou

Boggy Basin

E Fork Patrick Bayou

CHANNEL CITY RD

CENTER ST

TIDAL RD

010

R-002

R-003

R-004

R-006

R-007

R-008

R-009

8

Upstream/Downstream Marker

Outfalls

1-Mile Discharge Route

Facility Boundary

Property owned by PEMEX

NORTH

1,000 500 0 1,000

Scale in Feet

BURNS McDONNELL

ATTACHMENT H
SPIF MAP
PERMIT NO. WQ0000403000
AMENDMENT
PEMEX DEER PARK
HARRIS COUNTY, TEXAS

Path: C:\Projects\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment.aprx RKumari 7/25/2025

Service Layer Credits: World Imagery: Maxar

Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

Issued: 7/25/2025

# Attachment I
# Technical Report Additional Information

# ATTACHMENT I

## PEMEX Deer Park Refinery
## Technical Report Additional Information

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# ATTACHMENT I

## Technical Report Item 1.b: Refinery Operations

PEMEX operates the Deer Park Oil Refinery, located in Deer Park, Texas, which has a rated throughput capacity of 340,000 barrels per day. There are currently 27 refinery unit operations at the facility as shown in Table 1. In addition, there are 3 desalters, 34 boilers, and 11 cooling water towers (CWTs) in operation at the facility. Proposed Phase 2 will have 12 CWTs. There are also two co-generation facilities at the site where steam and electricity are produced for use throughout the refinery. Attachment J is a Facility Map that shows the location of the current refinery unit operations.

In addition to the refinery unit operations in Table 1, PEMEX operates a raw water treatment plant that produces clarified water for use as firewater and utility water (e.g. cooling tower make-up, wash water, firewater etc.), and demineralized water and condensate for use in boilers to produce steam. Finally, there are several logistics operations including the Docks, Tank Farm Operations, Gas Blending Operations, and the North Effluent Treater (NET). Raw materials such as crude oil are received and products are shipped at the Docks (some materials are shipped via truck, rail, or pipeline); raw materials, intermediate products, and final products are managed.

**Table 1 Refinery Unit Operations**

| Acronym | Unit Name |
|---|---|
| ALKY | ALKYLATION |
| CCU | CATALYTIC CRACKING UNIT |
| CFH | CATALYTIC FEED HYDROTREATER |
| CGHT | CRACKED GAS HYDROTREATER |
| COKER | COKER |
| CR-3 | CATALYTIC REFORMER NO. 3 |
| DHT | DISTILLATE HYDROTREATER |
| DU-1 | DISTILLING UNIT NO. 1 |
| DU-2 | DISTILLING UNIT NO. 2 |
| FGT | FUEL GAS TREATER |
| GOHT | GAS OIL HYDROTREATER |
| HDU-1 | HYDRODESULPHURIZATION UNIT NO. 1 |
| HDU-2 | HYDRODESULPHURIZATION UNIT NO. 2 |
| HVI | HIGH VISCOSITY INDEX DISTILLATION UNIT |
| PLAT 2 | PLATFORMER 2 |
| POST FRAC | POST FRACTIONATOR |
| PSA | PRESSURE SWING ABSORBER |
| SGP | SATS GAS PLANT |
| SHCU | SELECTIVE HYDROCRACKER UNIT |
| SR-5 | SULFUR RECOVERY UNIT NO. 5 |
| SR-6 | SULFUR RECOVERY UNIT NO. 6 |
| SR-7 | SULFUR RECOVERY UNIT NO. 7 |
| SR-8 | SULFUR RECOVERY UNIT NO. 8 |
| SWS-1 | SOUR WATER STRIPPER NO. 1 |
| SWS-2 | SOUR WATER STRIPPER NO. 2 |
| VF-3 | VACUUM FLASHER NO. 3 |
| VF-4 | VACUUM FLASHER NO. 4 |

# ATTACHMENT I

## Technical Report Item 1.c.: Raw Materials, Intermediate Products, & Final Products

**Table 2: Onsite Raw, Intermediate, & Final Products**

| Raw Materials | Intermediate Products | Final Products |
|---|---|---|
| Crude Oil | Fuel gas for combustion in the heaters | Cat Cracked Gasoline |
| Sulfolane | Pentanes | Gasoline blending components (Butane and Pentanes) |
| Diethanolamine | Naphtha | Gasoline |
| Sulfuric Acid | Distillates | Jet (JP-5, JP-8, and JetA) |
| Caustic | Gas Oils (light and heavy) | Diesel Fuel |
| Vacuum Gasoil | Vacuum Flasher Bottoms | Marine Fuel Oil Blendstock |
| Cutter | Reformates | Sulfur |
| Butylene | Platformates | Coke |
| Isobutane | Kerosene | Propane |
| Hydrogen | Vacuum Oil | Refinery Grade Propylene |
| Fuel gas | | N-butane |
| Naphtha | | Ultra Low Sulfur Diesel (ULSD) |
| Unfinished intermediates (typically associated with turnarounds/shutdowns) | | Gasoline components |
| Gasoline components | | Hydrocracker Units (HCU) platformate bottoms |
| Propane | | Carbon Dioxide (ending later this year) |
| | | Naphtha |
| | | Unfinished oils / Intermediates (typically associated with turnarounds/shutdowns) |
| | | Reformate |
| | | Dry gas |
| | | Gas Oil Hydrotreater (GOHT) bottoms |
| | | Cat Cracker Unit Slurry |

# ATTACHMENT I

## Technical Report Item 2.a: Treatment System

**North Effluent Treatment (NET)**

The existing North Effluent Treatment (NET) includes primary treatment, secondary biological treatment, tertiary treatment, and NESHAPS pretreatment where benzene-controlled wastewater is pretreated prior to treatment in the biological treatment unit. A Water Balance of the facility is included in Attachment K.

**Primary Treatment System**

The primary treatment system consists of three corrugated plate interceptor (CPI) oil/water separators located adjacent to the NET, two CPI separators located at remote locations, one spill diversion sump and two tanks, one equalization sump and tank, and two Dissolved Nitrogen Floatation (DNF) units.

***CPI Separators***

The NET system has three main CPI separators: DD-2, CCLP, and TC&G. Two other CPI separators CPI-1 and CPI-2 are located south of DU-1 and at the R-002 Inner Pond, respectively.

The DD-2 CPI receives process wastewater, non-process wastewater, and stormwater flow from the refinery via Manhole #1 (MH-1). The DD-2 CPI consists of four bays with each bay containing three double pack modules. Each pack has an effective area of 500 square feet ($ft^2$). DD-2 CPI has a total effective area of 12,000 $ft^2$ and a maximum design flow of 2,600 gpm.

The CCLP CPI receives process wastewater, non-process wastewater, stormwater, and domestic wastewater flow from the refinery via MH-3. The CCLP CPI consists of four bays with each bay containing three double pack modules. It has a total effective area of 12,000 $ft^2$ and a maximum design flow of 2,200 gpm.

The TC&G CPI receives process wastewater, non-process wastewater, stormwater, landfill leachate, and flow from the North Pond under drain system via MH-2. TC&G CPI consists of four bays with each bay containing three double pack modules. It has a total effective area of 12,000 $ft^2$ and a maximum design flow of 1,250 gpm.

CPI-1 receives process wastewater, non-process wastewater, and stormwater from the DU-1 and DU-2 area. It consists of two bays with each bay containing two single pack modules. Each pack has an effective area of 500 $ft^2$. CPI-1 has a total effective area of 2,000 $ft^2$. It has a design normal dry weather flow of 500 gpm and a maximum design flow of 1,700 gpm. The flow to CPI-1 can be diverted to MH-1 and DD-2 CPI when influent flow is above 1,700 due to heavy storm conditions. Effluent from CPI-1 is pumped to MH-4 before flowing to the Equalization Sump X-330 in the NET area.

CPI-2 receives process wastewater, non-process wastewater, and stormwater from the East Refinery Area via Box 14. It consists of two bays with each bay containing two single pack modules. CPI-2 has a total effective area of 2,000 $ft^2$ and a design maximum flow of 500 gpm. Excessive flow above 500 gpm can be diverted to Parallel Plate Interceptor #2 (PPI-2) located adjacent to CPI-2. PPI-2 has two bays and a rated flow capacity for each bay of 400 gpm. The effluent from CPI-2 is pumped to the NET area where it commingles with flow from CPI-1 prior to MH-4. The PPI-2 effluent currently flows into the R-002 Inner Pond and is pumped to MH-1 and DD-2 CPI.

There is a 30-inch pipe connecting MH-2 and MH-3, and a 24-inch pipe connecting MH-1 and MH-2. These two pipes provide interconnections between DD-2 CPI, TC&G CPI, and CCLP CPI to

equalize flow. When the total flow into the three CPIs exceeds their maximum capacity, excess flow overflows to the North Pond via overflow weirs in MH-1 and MH-2.

***Spill Diversion Sump and Tank***

Wastewater enters the NET through the Primary Treatment System and the Benzene Waste NESHAP Pretreatment System. Both paths are sampled routinely for contaminants of concern and results are compared to NET diversion guidelines. If a diversion limit is exceeded, the stream with the highest loading may be diverted to Sump S-412 and pumped to the Spill Diversion Tank J-320 and J-341. Spill Diversion Tank J-320 is 80 ft in diameter by 40 ft tall and has a capacity of 1.5 million gallons. Flow will be directed from the Spill Diversion Sump to new Spill Diversion Tank J-341 in the future. Spill Diversion Tank J-341 is 100 ft in diameter by 60 ft tall and has a capacity of 3.28 million gallons. The diverted wastewater is bled back from Tank J-320/J-341 to MH-4 at a rate which will not upset the NET performance.

***Equalization Sump and Tank***

Effluents of DD-2 CPI, TC&G CPI, CCLP CPI, CPI-1 and CPI-2 flow to MH-4 and then to the X-330 Sump. MH-4 also receives process wastewater from Sour Water Stripper #2 (SWS-2), the Alkylation Unit (ALKY), the Wet Gas Scrubber Purge Treatment Unit, and from Spill Diversion Tank J-320/J-341. Acid and caustic can be added to the X-330 Sump to adjust the wastewater pH. Wastewater from X-330 Sump is pumped to Equalization Tank X-330. Equalization Tank X-330 is 90 feet in diameter and 48 feet tall and has a capacity of 2.0 million gallons.

***Slop Oil Sump and Decant Pits***

Oil from DD-2 CPI, TC&G CPI, CCLP CPI flows to a slop oil sump and then is pumped to X- 315/X-320.

***Dissolved Nitration Floatation***

Wastewater flows from the X-330 Equalization Tank, T-301, and T-302 are sent to the two Dissolved Nitration Floatation (DNF) units TN-80010 and TN-80011. The DNF units utilize flotation technology to remove suspended contaminants and oils from process water and wastewater like the former Dissolved Air Flotation (DAF) units but with nitrogen instead of air as the flotation gas. The DNF process allows off gases to be collected and controlled and eliminates oxygen from the system which posed explosion hazard when mixed with VOCs. The DNF effluent flows by gravity to the trickling filter sump of the Biological Treatment System.

**Biological Treatment System**

The biological treatment system consists of one trickling filter, one wet air surface cooler (WASC), two aeration basins, two secondary clarifiers, and a sludge handling system.

***Wet Air Surface Cooler***

The DNF effluent is routed to the wet air surface cooler (WASC) TN-80021 where the effluent is cooled by circulating through tubes that are sprayed with water on the exterior to cause evaporation which absorbs heat and cools the effluent prior to treatment in the activated sludge aeration basins EWT-11 and EWT-12.

***Aeration Basins***

The wastewaters from the WASC are split into two streams feeding the two parallel, completely mixed, activated sludge aeration basins EWT-11 and EWT-12. Each aeration basin is 85 feet wide

by 340 feet long with a side water depth of 15.5 feet and has a capacity of 3.15 million gallons. Each aeration basin has three to five 100 hp slow speed surface aerators. There are also a total of 1,264 fine bubble diffusers installed in the two aeration basins. Air is supplied to the diffusers by two centrifugal blowers each rated at 3,550 scfm. Organic contaminants in the wastewater are biologically removed by activated sludge in the aeration basins.

The mixed liquor overflows weirs from the aeration basins to the final clarifiers through two 36-inch underground lines. The recycle sludge is routed from the bottom of the final clarifiers and pumped to the aeration basins. An anti-foam agent may be added to the aeration basin to reduce foaming.

***Final Clarifiers***

Mixed liquor from each aeration basin enters the center well of each of the two 150 feet diameter final clarifiers EWT-13 and EWT-14 for separation of biological solids. The aeration basins and clarifiers operate as two parallel trains under normal conditions. Polymers are routinely added to final clarifiers to improve solid settling. Solids settled to the bottom of each clarifier are collected with a rotating bottom scraper and underflow solids are returned to the aeration basins to maintain the mixed liquor solids level required for optimum biological removal of organics. A slip stream from each sludge recycle line is wasted to remove excess biological solids produced. The clarifier effluent overflows peripheral launders and flows by gravity to the final filters.

***Sludge Handling System***

Excess sludge is wasted from the sludge recycle line and pumped to a single 40 feet diameter sludge thickener EWT-15 for thickening. The supernatant is pumped back from the thickener overflow sump to the aeration basins. The thickener underflow solids flow by gravity to the sludge digester. The aerobic digester is designed to reduce the net biosolids volume. Sludge in the aerobic digester can be sent to Coker Unit or pumped to a centrifuge and further dewatered before final disposal.

**Tertiary Treatment**

Tertiary treatment is provided by a series of 10 sand filters operated in parallel.

***Sand Filters***

The final clarifier overflow enters the flow splitter box, which distributes the stream among ten 14 feet diameter, deep-bed sand filters EWT-18A through EWT-18J. The stream passes through the filters by gravity and is collected in an Effluent Clearwell EWT-19 before overflowing to the Houston Ship Channel via Outfall R007. A portion of the treated water can be used as make- up water for the fire protection system. Treated effluent is also used to backwash the filters and as service water for the fire protection system in the NET area.

**Benzene Waste NESHAP Pretreatment System**

The purpose of the Benzene Waste NESHAP (BWN) Pretreatment System is to remove benzene from wastewater. Benzene is removed from the process by removing both free and emulsified oil and grease, and by recovering and controlling vapors from the equipment. The BWN Pretreatment System receives wastewater from three headers: the High Alkalinity Header; the High Hardness Header; and the X-Street Header.

# ATTACHMENT I

The High Alkalinity Header is a 4-inch header collecting streams from the Aromatics Concentration Unit (ACU) and the Benzene Extraction Unit (BEU) Vessel V-184 (benzene contaminated water accumulator) and from the CR-3 Vessel V- 5634 (spent caustic wash water and purge). The High Hardness Header is an 8-inch header collecting DU-1 and DU-2 desalter brine flows. The X-Street Header is a 6-inch header collecting tank water draws from slop oil tanks X-320 and X-315.

The maximum design flow of the BWN Pretreatment System is 1,000 gpm. This pretreatment system consists of 3 Phase Centrifuge, two Equalization/Diversion tanks, two CPIs, two Induced Gas Floatation (IGF) units, and a floatate treater system. Currently, the two CPIs, two Induced Gas Floatation (IGF) units, and a floatate treater system are out of service and benzene wastewaters are being sent from the 3 Phase Centrifuge and two Equalization/Diversion tanks to the two Dissolved Nitrogen Flotation (DNF) units.

***3 Phase Centrifuge***

The 3-Phase Centrifuge is owned and operated by a third party; designed to draw effluent from either T-301/T-302 for solids and oil separation. Post centrifuged effluent is routed back to T-301/T-302 for further processing through the DNF's pretreatment. Oils are sent to rerun tankage for reprocessing and solids cake is sent as oil-bearing secondary material (OBSM) to the COKER as supplemental quench slurry.

***Equalization and Spill Diversion Tanks***

The Equalization/Diversion Tanks T-301 and T-302 are 62 feet in diameter by 48 feet tall with a capacity of 1.0 million gallons. The purpose of the Equalization/Diversion Tanks is to equalize flow and to collect off-spec influent from the header system for storage prior to bleeding back to the system.

Tanks T-301 and T-302 have a jet mixing system which is used to periodically re- suspend solids and to drain off-spec material to the CPIs and empty the tanks.

***Corrugated Plate Interceptors***

When the BWN pretreatment system is in operation, wastewater from the equalization tanks flows to two Corrugated Plate Interceptors (CPI) units T-306 and T-307. The two CPI units are skid mounted pre- fabricated down-flow units with a maximum flow rating of 1,000 gpm total. Each CPI unit has eight packs, designed to operate at a slight positive pressure for vent control. The purpose of the CPI units is to remove free oil and solids from the influent.

***Induced Gas Floatation***

Effluent from the CPI units flows by gravity to two IGF units T-308 and T-309. The two IGF units are skid mounted pre-fabricated units with a maximum design flow of 1,000 gpm total. Each unit has four flotation cells in series with approximately one-minute retention time in each cell. It is designed to operate at a slight positive pressure for vent control. The purpose of the IGF units is to remove emulsified oils and associated solids by nitrogen flotation with chemical aids. Effluent from the IGF units is pumped and commingled with the trickling filter effluent before being fed to the aeration basins.

***Floatate Treater System***

Floatate generated in the IGF units flows to two floatate treater tanks T-303 and T-304. The objective of the floatate treater system is to further separate and concentrate emulsified oils and sludge in IGF floatate. Both T-303 and T-304 are skid mounted 10,000 gallons pre-fabricated tanks.

T-304 acts as a spare for T-303 during maintenance. Floatate oil flows from T-303 to T-304 and is then pumped from T-304 to slop oil tanks X-320 and X-315.

***Solids Handling***

Thickener T-305 is currently out-of-service. When in operation, thickened sludge is sent off-site for disposal.

# ATTACHMENT I

**Table 3: Treatment Unit List**

| UNIT I.D. | Description | Size |
|---|---|---|
| **NET Primary Treatment** | | |
| EWT-1 | DD-2 CPI Oil/Water Separator | 12,000 $ft^2$ effective area |
| EWT-2 | TC&G CPI Oil/Water Separator | 12,000 $ft^2$ effective area |
| EWT-3 | CCLP Oil/Water Separator | 12,000 $ft^2$ effective area |
| CPI-1 | CPI Oil/Water Separator | 2,000 $ft^2$ effective area |
| CPI-2 | CPI Oil/Water Separator | 2,000 $ft^2$ effective area |
| X-330-S | Equalization Sump | 14 ft L X 9 ft W X 17 ft SWD |
| X-330 | Equalization Tank | 90 ft Dia. X 48 ft H |
| S-413 | Phosphoric Acid Storage Tank | 10 ft Dia. X 20 ft H |
| Spill Diversion Sump | Spill Diversion Sump | 52 ft L X 9 ft W X 17 ft SWD |
| J-320 | Spill Diversion Tank | 80 ft Dia X 40 ft H |
| J-341 | Spill Diversion Tank | 100 ft Dia. X 60 ft H |
| Slop Oil Sump | Slop Oil Sump | 10 ft L X 10 ft W X 10 ft H |
| Decant Pits | Decant Pits | 20 ft L x 40 ft W x 10 ft H |
| MH-4 | Manhole Number 4 | 10 ft L x 10 ft W x 4 ft H |
| Trickling Filter Sump | Trickling Filter Sump | 43 ft L X 32 ft W X 23 ft D |
| RM-9100 | Inline Mixer | 24" Dia Inline Pipe |
| RM9101 | Flocculation Tube | 24" Dia Serpentine Pipe |
| TN-80010 | DNF Unit 1 | 53 ft L X 15 ft W X 12 ft SWD |
| TN-80011 | DNF Unit 2 | 53 ft L X 15 ft W X 12 ft SWD |
| TN-80013 | DNF Sludge Tank | 6 ft dia X 19 ft H |
| TN-80014 | DNF Float Tank | 10 ft dia X 19 ft H |
| TN-80012 | DNF Sludge Transfer Tank | 18 ft dia X 22 ft H |
| TN-80019 | Flare Booster System K.O Pot | 3 ft dia X 6 ft H |
| 3 Phase Centrifuge | 3 Phase Centrifuge | |
| TN-80021 | Wet Surface Air Cooler Tank | 60 ft L X 49 ft W X 23 ft H |
| TN-80020 | Wet Surface Air Cooler Recirculation Sump | 15 ft L X 10 ft W X 11 ft D |
| TN-80022 | Bleach Storage Tank | 6 ft dia X 10 ft H |
| **Benzene Waste System** | | |
| T-301 | Equalization/Diversion Tank | 62 ft Dia. X 48 ft H |
| T-302 | Equalization/Diversion Tank | 62 ft Dia. X 48 ft H |
| **NET Biological Treatment** | | |
| EWT-11 | North Aeration Basin | 85 ft X 340 ft X 15.5 ft SWD |
| EWT-12 | South Aeration Basin | 85 ft C 340 ft C 15.5 ft SWD |
| EWT-13 | West Final Clarifier | 175' ft Dia C 12 ft SWD |
| EWT-14 | East Final Clarifier | 175' ft Dia C 12 ft SWD |
| EWT-15 | Sludge Thickener | 40 ft Dia C 10 ft SWD |
| EWT-16 | Sludge Digester | 107 ft C 107 ft C 10 ft SWD |
| EWT-18 A through J | Final Sand Filters | 14' ft Dia C 16.6 ft SWD |
| EWT-19 | Effluent Clearwell | 30,000 gallons |
| Backwash Sump | Backwash Sump | 20 ft L X 20 ft W X 20 ft H |

SWD = Side Wall Depth of DNF
DNF - Dissolved Nitrogen Flotation
CPI – Corrugated Plate Interceptor

# ATTACHMENT I

**Wastewater Collection Systems**

There are four primary wastewater collections systems including the Oily Water Sewer (OWS), the Stormwater Sewer (SS), the NESHAPS collection system, and the Domestic Wastewater Sewer at the PEMEX Deer Park Refinery. In addition, there are three secondary sewers including the Maintenance Drop-Out (MDO) System, the Diethanolamine (DEA) System, and the Sulfolane System.

***Oily Water Sewer (OWS)***

The OWS conveys process wastewater, non-process wastewater, and stormwater from various units throughout the refinery to DD-2 CPI, CCLP CPI, TC&G CPI, CPI-1, and CPI-2 for oil/water separation prior to discharge to MH-4 and the rest of the NET. Non-process wastewater includes, but is not limited to, cooling water tower blowdown, condensate, heat exchanger backflush, washwater, hydrostatic test water, clarified water, demineralized water, utility water, and fire water. In addition, process wastewater is routed in dedicated pipelines from SWS-2, ALKY, and the Wet Gas Scrubber Purge Treatment Unit to MH-4.

***Stormwater Sewer (SS)***

The SS conveys stormwater and/or non-process wastewater to the R-002 Diversion Box, the R-003 Diversion Box, and to DD-2, CCLP, and TC&G CPIs. Non- process wastewater includes but is not limited to condensate, heat exchanger backflush, utility water, and fire water. The SS also conveys stormwater to R-004, R-006, R-008, and R-009.

***NESHAPS System***

The NESHAPS system conveys benzene-controlled waste streams from the High Alkalinity Header, the High Hardness Header, and the X-Street Header in dedicated pipelines to the BWN Pretreatment System.

***Domestic Wastewater Sewer***

The Domestic Wastewater Sewer conveys sanitary wastewater from throughout the refinery to the Sanitary Sewage Chlorine Facility located in the northeast corner of the NET adjacent to the final clarifiers for chlorination prior to discharge to CCLP CPI and subsequent treatment in the biological system.

***Maintenance Drop Out System (MDO)***

The MDO system is located in various units throughout the refinery. The purpose of the MDO system is to convey lubricating oils to the slop oil tanks X-320 and X-315 for recovery.

***Diethanolamine System (DEA)***

Diethanolamine is used in the Sulfur Recover units. These units are equipped with sewers to direct any DEA wastewater to dedicated tanks for recovery. These are dedicated sewers and are not connected to the NET.

***Sulfolane Sewer System***

The ACU and BEU units use sulfolane to extract benzene from process streams. These units are equipped with sewers to direct any sulfolane wastewater to dedicated tanks for recovery. These dedicated sulfolane sewers are not connected to the NET.

# ATTACHMENT I

***Firewater Pump Operations***

PEMEX maintains a firewater protection system throughout the refinery. The system is equipped with firewater pumps located at the docks and fire training grounds. These pumps must be tested periodically. When the tests are conducted, the pumps take suction from the Houston Ship Channel and discharge back to the Houston Ship Channel. No chemicals are added during the testing.

# ATTACHMENT I

## Technical Report Item 6. Stormwater Management

All refinery unit operations are constructed outdoors and subject to precipitation and runoff. Stormwater is managed in the Oily Water Sewer (OWS) and the Stormwater Sewer (SS) at the facility. Runoff is routed from the OWS and SS to the CPIs during normal rainfall events. During extreme precipitation events when the flow exceeds the CPIs capacity, the sewers are routed to the North Pond. Wastewater is pumped from the North Pond to the Stormwater Impoundment Basin (SWIB). Contaminated runoff from the SWIB is normally routed back to the NET for treatment and discharge through Outfall R-007. However, discharges of contaminated runoff from the SWIB through Outfall R-108 and then R-008 can occur during extreme precipitation events or after sequential precipitation events. Under normal dry-weather conditions non-process wastewater is routed to the R-003 or R-002 Diversion Boxes from various unit operations in the East Refinery Area. Dry-weather flow from the R-003 Diversion Box is pumped to the gravity sewer that flows to CCLP CPI. Dry-weather now from the R-002 Diversion Box is routed to the R-002 Inner Pond and then pumped to DD-2 CPI. When a precipitation event begins, flows to the R-003 and R-002 Diversion Boxes increase. The first flush of stormwater is pumped to CCLP CPI and DD-2 CPI. When the stormwater flow exceeds the capacity of the R-002 and R-003 Diversion Boxes, it is diverted over a weir to the R-002 and R-003 Outer Ponds, respectively, and discharges through R-002 and R-003. This wet- weather flow is primarily stormwater, but can include de minimis amounts of non-process wastewater.

# ATTACHMENT I

## Technical Report Item 10.b: Off-site/Third Party Wastes

The facilities and wastewaters discussed in Table 4 are currently accepted and authorized for discharge from the Deer Park Oil Refinery. The acceptance of these wastes is a continuation of practices from the previous facility owner, Shell Oil Company. These facilities are under a Master Service Agreement (MSA) that allows the treatment tank draws from tanks located onsite at the Deer Park Oil Refinery in the NET and discharge through Outfall 007. Utility wastewaters and cooling tower blowdown are routed to the big ditch which discharges through Outfall 008.

**Table 4: Off-site/Third Party Wastes**

| Third Party Facility | Wastes |
|---|---|
| Shell Deer Park Chemicals<br>(RN100211879)<br>5900 Highway 225<br>Deer Park, TX 77536 | Shell Deer Park Chemical has tanks stored onsite at the Deer Park Oil Refinery that produce tank water draws that are sent to the North Effluent Treatment system and are discharged via Outfall 007. Cooling tower blowdown is also sent to the big ditch that discharges to Outfall 008. |
| Westlake Epoxy Deer Park<br>(RN102590775)<br>5900 Highway 225<br>Deer Park, TX 77536 | Westlake Epoxy Deer Park has tanks stored onsite at the Deer Park Oil Refinery that produce tank water draws that are sent to the North Effluent Treatment system and are discharged via Outfall 007. |
| Calpine Deer Park Energy Center<br>(RN100222033)<br>5665 Highway 225<br>Deer Park, TX 77536 | Utility wastewater blowdown and cooling tower blowdown are sent to the big ditch and Outfall 008. Domestic wastewater is sent for treatment to the onsite domestic treatment system, which is monitored at internal Outfall 107, and discharged via Outfall 007. |

# ATTACHMENT I

## Technical Report Item 13: Permit Change Requests

The Deer Park Oil Refinery facility transferred ownership in March of 2022 from Shell Oil Company to Deer Park Refining Limited Partnership, which is owned by Petróleos Mexicanos (PEMEX). This TPDES application renewal includes major amendment, minor amendment, and minor modification requests that are intended to simplify and improve operations at the facility and are discussed in detail below. Additionally, the facility is working on a debottlenecking project with distilling unit 1 (DU1) that would increase the throughput capacity of DU1 from 70 thousand barrels per day (kbpd) to 85 kbpd and include the construction of a new cooling water tower. The feasibility of this project is still underway, so a future phase at Outfall 007 is included in the major amendment request below:

**Item 13.a: Major Amendments**

1. Authorize the discharge of hydrostatic test water from vessels previously in hydrocarbon service from Outfalls 002, 003, 004, 006, 008, 009, and internal Outfall 108.

   The discharge of hydrostatic test waters from the Deer Park Refinery is currently authorized under the Hydrostatic Test Water General Permit No. TXG670472. This amendment allows for more operational flexibility and streamlines compliance by consolidating these discharge requirements under one permit.

2. Authorize the discharge of non-process wastewaters from Outfalls 004, 006, 008, 009, 010 and internal Outfall 108.

   Currently only Outfalls 002 and 003 are authorized to discharge the non-process wastewaters referenced in Other Requirement No. 12 of the current permit, which includes: condensate, heat exchanger back flush water, utility wastewater, and firewater. The authorization to discharge non-process wastewater at the outfalls listed above allows for greater operational flexibility for the facility.

3. Authorize the discharge of ballast water from Outfall 008 and internal Outfall 108.

   Ballast water is only authorized for discharge through Outfall 007 which is located along the north shoreline of the facility. Currently, all ballast water generated across the facility must be transported to Outfall 007 for discharge. The authorization to discharge ballast wastewater from Outfall 008 and 108 will simplify the discharge of ballast waters across the facility and allow for greater operational flexibility.

4. Reduce the monitoring frequency of effluent limitations and monitoring requirements at Outfalls 002, 003, 004, 006, 007, 107, 008, 009, and 010.

   PEMEX requests that the monitoring requirements for total organic carbon and oil and grease at Outfalls 002, 004, 006, 009 be reduced from once per day to once per month. Over the last two years, both outfalls have consistently discharged concentrations of these constituents below 25% of the effluent limitations established in the permit for these outfalls. The reduction in monitoring frequency is allowed per the EPA's *Interim Guidance for Performance - Based Reductions of NPDES Permit Monitoring Frequencies* Memo from April 19, 1996.

   PEMEX requests that the monitoring requirements for total organic carbon and oil and grease at Outfall 003 be reduced from once per day to once per week. Over the last two years, this outfall has consistently discharged concentrations of these constituents below 65% of the effluent limitations established in the permit at this outfall. The reduction in monitoring frequency is

allowed per the *EPA's Interim Guidance for Performance - Based Reductions of NPDES Permit Monitoring Frequencies* Memo from April 19, 1996.

PEMEX requests that the monitoring frequency for $BOD_5$, total suspended solids, total organic carbon, oil and grease, phenols, ammonia as nitrogen, sulfide, total chromium, hexavalent chromium, enterococci, total nitrogen, and total phosphorus are reduced to once per month. Over the last two years the average concentration of these constituents has been below 25% of the effluent limitations established at this outfall. The reduction in monitoring frequency for these parameters is allowed per the *EPA's Interim Guidance for Performance - Based Reductions of NPDES Permit Monitoring Frequencies Memo* from April 19, 1996. Additionally, it is requested that the monitoring frequency for internal Outfall 107 for Enterococci is reduced from once per week to once per month since the overall two-year average concentration of these constituents has been below 25% of the effluent limitations established at this outfall.

PEMEX requests that the monitoring requirements for total organic carbon and oil and grease at Outfall 008 is reduced from once per day to once per month. Over the last two years, this outfall has consistently discharged concentrations of these constituents below 25% of the effluent limitations established in the permit at this outfall. The reduction in monitoring frequency is allowed per the *EPA's Interim Guidance for Performance - Based Reductions of NPDES Permit Monitoring Frequencies Memo from April 19, 1996*.

5. Authorize the discharge of refinery process wastewater from system upsets during extreme precipitation events from Outfall 010 and new internal Outfall 208 which will ultimately discharge via Outfall 008.

   PEMEX is requesting the authorization to discharge refinery process wastewaters during extreme weather events from the stormwater impoundment basin (SWIB) via a new internal Outfall 208 thence to Outfall 008 and the North Pond via Outfall 010. Overflow of process wastewater from MH-1, MH-2, X-330 Sump, and the sand filters can be routed to the North Pond thence to the stormwater impoundment basin (SWIB) and discharge via Outfall 208 during extreme rainfall events, in addition to the other wastewaters currently authorized for monitoring at internal Outfall 108 including contaminated stormwater. North Pond is authorized to discharge via Outfall 010 directly to the Houston Ship Channel.

   This diversion of process wastewater under atypical conditions was included in the application materials submitted by the previous permittee, Shell Oil Company, for permit WQ0000403000 in the last application.

   The permit was transferred to Deer Park Refining Limited Partnership on March 3, 2022. While Permit Conditions No. 10 (page 10 of the existing permit), establishes that "the application pursuant to which the permit has been issued is incorporated herein", the applicant requests that this diverted waste stream be explicitly included in the authorized waste streams at new internal Outfall 208 (in addition to the other wastewaters currently authorized for monitoring at internal Outfall 108 including contaminated stormwater) and Outfall 010.

6. Revise Technology-Based Effluent Limitations at Outfall 007

   The effluent limitations applied at Outfall 007 are not reflective of current or recent historical capacity and throughput at the facility. The existing permit limits for $BOD_5$, TSS, TOC, oil and grease, phenols, ammonia as nitrogen, sulfide, total chromium, and hexavalent chromium date at least as far back as the permit issued on May 15, 2012 (the oldest permit version available on the TCEQ's Commissioners' Integrated Database). Further, the TCEQ's public Water Quality

Permit Query website indicates an original permit date of December 19, 1962. The applicant, however, does not have access to the prior applications submitted by the previous permittee or their associated issued permits and fact sheets.

The existing Fact Sheet and Executive Director's Preliminary Decision for the permit issued March 4, 2021 indicates that the permit limits for the aforementioned parameters at Outfall 007 are not based on either technology-based effluent limit calculations or water quality-based screenings. Therefore, it is our understanding that these limits may represent original EPA-issued permit limits or limits based on outdated or erroneous application data provided by the previous permittee.

The applicant requests that the technology-based effluent limitations (calculated using the current flows, capacities, and throughput provided in this application) or where appropriate the water quality-based effluent limitations (calculated using current criteria and critical conditions) be applied in the reissued permit under the anti-backsliding exception allowed in 40 CFR § 122.44(l)(2)(i)(B)(1). Further, the Houston Ship Channel is currently attaining water quality standards for the parameters in question (i.e. there are no listed impairments for those parameters) which satisfies the requirements of Clean Water Act (CWA) §§402(o)(1) and 303(d)(4), subject to degradation review approval.

For all these reasons, increasing the effluent limits for $BOD_5$, TSS, TOC, oil and grease, phenols, ammonia as nitrogen, sulfide, total chromium, and hexavalent chromium at Outfall 007 meets anti-backsliding requirements and will still maintain the water quality of the receiving water.

7. Include a second phase for Outfall 007 for a future increase in throughput capacity and revise the technology-based effluent limits at Outfall 007 accordingly.

   A debottlenecking study associated with DU1 is currently underway at Deer Park Refinery and has the potential to increase the throughput of this unit from 70 kbpd to 85 kbpd. If the project moves forward, it will also necessitate the construction of a new cooling water tower to address the additional cooling needs for the throughput increase. This application requests the following operational phases for Outfall 007:

   Phase I: Effluent limits that reflect the existing facility process capacity including the revised technology-based effluent limits requested in Major Amendment No. 5.

   Phase II: Effluent limits that reflect the revised technology-based effluent limits requested in Major Amendment No. 5, calculated with the increase capacity at DU1 to 85 kbpd.

**Item 13.b: Minor Amendments**

1. Allow the use of algicide treatment in the ditch that flows to Outfall 008

   During summer months algae growth occurs in the ditch between internal Outfall 108 and external Outfall 008 which can cause pH exceedances. Deer Park Oil Refinery would like to use algicide treatment in the ditch that flows to Outfall 008 to reduce algae growth and possible pH exceedances.

2. Include a definition for utility wastewaters in the Other Requirements.

3. Revise Other Requirement No. 10.A language for clarity and consistency.

   The applicant requests that the language in Other Requirement No. 10.A.1, applicable to the SWIB, be removed to provide consistency between the requirements for Outfall 010 and

internal Outfall 108. This language causes confusion between this requirement and the discharge requirements found in Other Requirement No. 9. For these reasons, it is requested that it is removed for consistency and clarity.

**Item 13.c: Minor Modifications**

1. Remove Outfall 001 from the permit.

   This outfall is no longer utilized. The applicant requests it is removed from the permit.

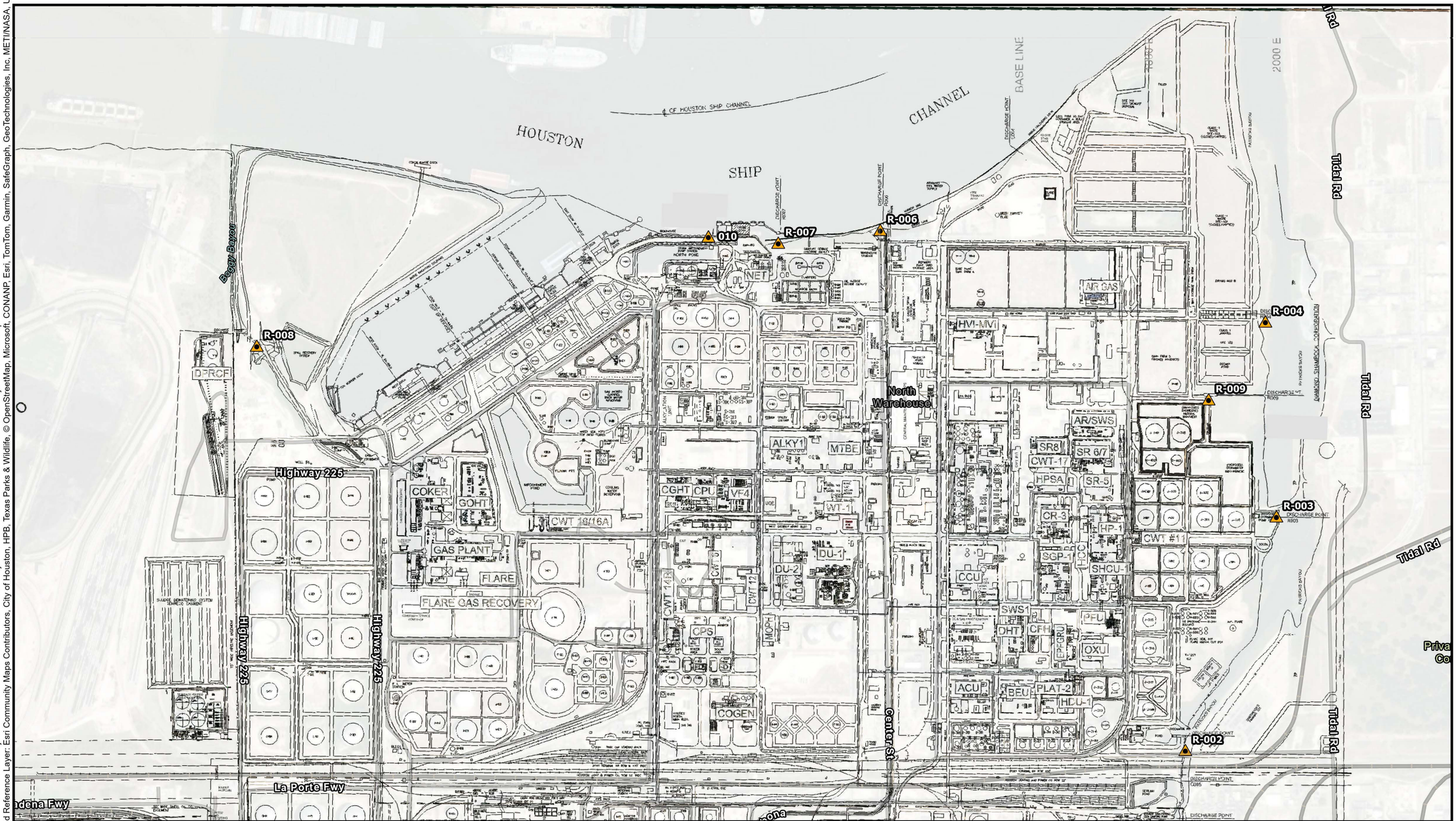
2. Remove Outfall 207 from the permit and all applicable effluent limitations from Outfall 007.

   Deer Park Oil Refinery no longer sends wastewaters from the NET to the South Effluent Treatment (SET), located at the Shell Deer Park Chemicals facility, TPDES No. WQ0000402000.

3. Remove waste streams and associated effluent limitations from Outfall 007.

   The applicant requests that the waste streams authorized at Outfall 007 be revised to remove authorization for “effluent transferred from the adjacent Shell Oil Company facility”, remove any associated pollutant parameters at Outfall 007, and remove Other Requirement No. 14. The diversion of certain wastewaters between facilities (via Outfall 007 of permit WQ0000403000 and Outfalls 001, 101, and 004 of permit WQ0000402000) have been halted since the permit transfer to Deer Park Refining Limited Partnership. The applicant requests the reissued permit reflect this change for accuracy and correctness.

# Attachment J
# Facility Site Drawing

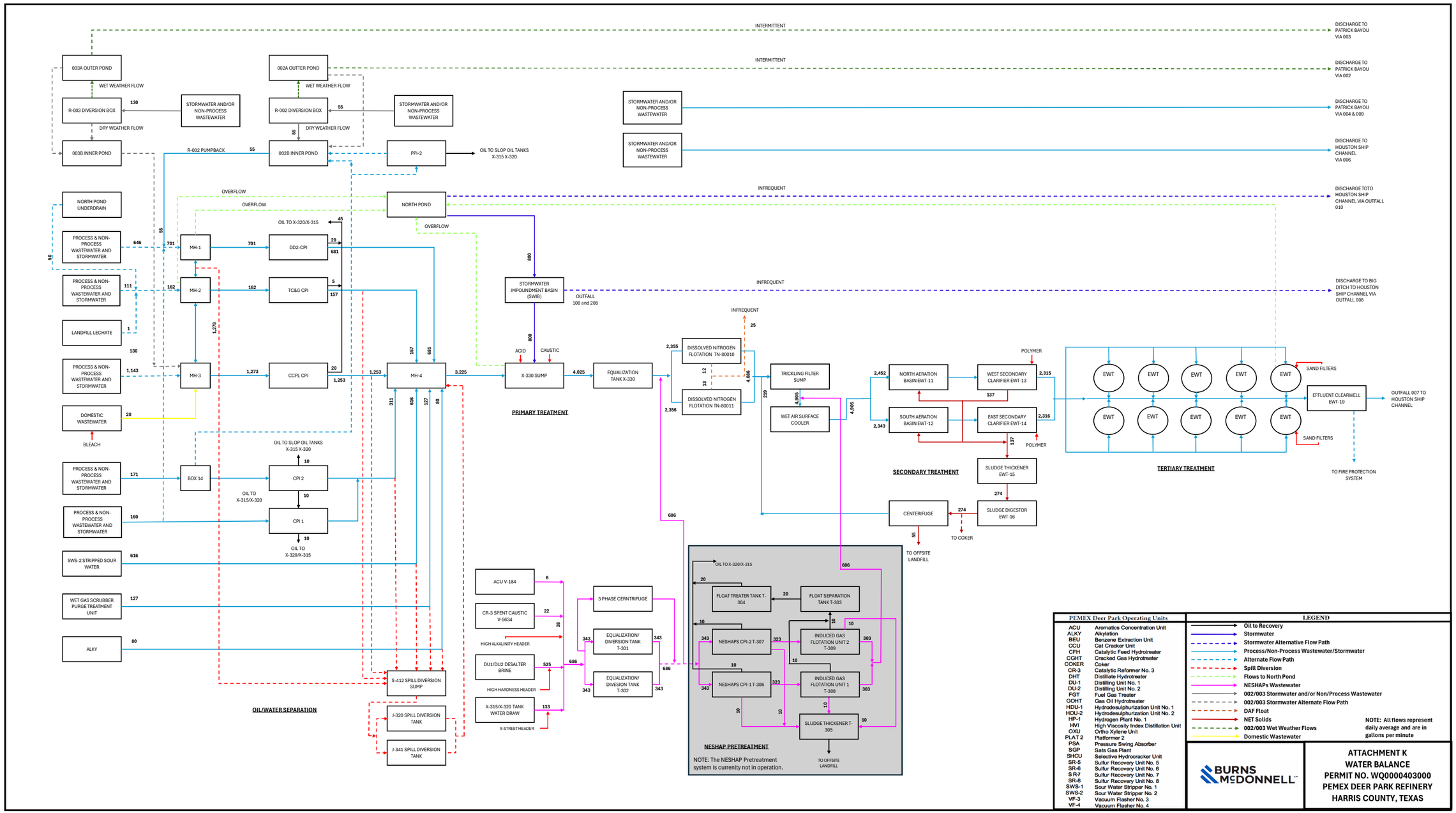



Path: C:\Projects\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment\PEMEX Deer Park TPDES Major Amendment.aprx RKumari 7/25/2025
Service Layer Credits: Hybrid Reference Layer: Esri Community Maps Contributors, City of Houston, HPB, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS

Source: Esri, NRCS, USDA, EGP, and Burns & McDonnell

Issued: 7/25/2025

# Attachment K
# Water Balance


003A OUTER POND
WET WEATHER FLOW
R-003 DIVERSION BOX
130
STORMWATER AND/OR NON-PROCESS WASTEWATER
DRY WEATHER FLOW
003B INNER POND
002A OUTTER POND
WET WEATHER FLOW
R-002 DIVERSION BOX
55
STORMWATER AND/OR NON-PROCESS WASTEWATER
DRY WEATHER FLOW
55
002B INNER POND
R-002 PUMPBACK
55
PPI-2
OIL TO SLOP OIL TANKS X-315 X-320
INTERMITTENT
DISCHARGE TO PATRICK BAYOU VIA 003
INTERMITTENT
DISCHARGE TO PATRICK BAYOU VIA 002
STORMWATER AND/OR NON-PROCESS WASTEWATER
DISCHARGE TO PATRICK BAYOU VIA 004 & 009
STORMWATER AND/OR NON-PROCESS WASTEWATER
DISCHARGE TO HOUSTON SHIP CHANNEL VIA 006
NORTH POND UNDERDRAIN
OVERFLOW
OVERFLOW
NORTH POND
INFREQUENT
DISCHARGE TOTO HOUSTON SHIP CHANNEL VIA OUTFALL 010
OVERFLOW
OIL TO X-320/X-315
45
PROCESS & NON-PROCESS WASTEWATER AND STORMWATER
646
50
55
701
MH-1
701
DD2-CPI
20
681
800
STORMWATER IMPOUNDMENT BASIN (SWIB)
OUTFALL 108 and 208
INFREQUENT
DISCHARGE TO BIG DITCH TO HOUSTON SHIP CHANNEL VIA OUTFALL 008
PROCESS & NON-PROCESS WASTEWATER AND STORMWATER
111
162
MH-2
162
TC&G CPI
5
157
LANDFILL LECHATE
1
1,279
INFREQUENT
25
2,355
DISSOLVED NITROGEN FLOTATION TN-80010
12
13
DISSOLVED NITROGEN FLOTATION TN-80011
2,356
4,686
130
PROCESS & NON-PROCESS WASTEWATER AND STORMWATER
1,143
MH-3
1,273
CCPL CPI
20
1,253
1,253
MH-4
3,225
157
681
ACID
CAUSTIC
800
X-330 SUMP
4,025
EQUALIZATION TANK X-330
TRICKLING FILTER SUMP
219
4,905
4,905
WET AIR SURFACE COOLER
DOMESTIC WASTEWATER
28
BLEACH
311
616
127
80
OIL TO SLOP OIL TANKS X-315 X-320
10
PROCESS & NON-PROCESS WASTEWATER AND STORMWATER
171
BOX 14
OIL TO X-315/X-320
CPI 2
10
CPI 1
10
OIL TO X-320/X-315
PROCESS & NON-PROCESS WASTEWATER AND STORMWATER
160
SWS-2 STRIPPED SOUR WATER
616
WET GAS SCRUBBER PURGE TREATMENT UNIT
127
ALKY
80
S-412 SPILL DIVERSION SUMP
J-320 SPILL DIVERSION TANK
J-341 SPILL DIVERSION TANK
OIL/WATER SEPARATION
PRIMARY TREATMENT
2,452
NORTH AERATION BASIN EWT-11
POLYMER
WEST SECONDARY CLARIFIER EWT-13
2,315
137
2,343
SOUTH AERATION BASIN EWT-12
EAST SECONDARY CLARIFIER EWT-14
2,316
137
POLYMER
SECONDARY TREATMENT
SLUDGE THICKENER EWT-15
274
CENTERIFUGE
274
SLUDGE DIGESTOR EWT-16
55
TO COKER
TO OFFSITE LANDFILL
EWT
SAND FILTERS
EFFLUENT CLEARWELL EWT-19
OUTFALL 007 TO HOUSTON SHIP CHANNEL
SAND FILTERS
TERTIARY TREATMENT
TO FIRE PROTECTION SYSTEM
686
ACU V-184
6
CR-3 SPENT CAUSTIC V-9634
22
28
HIGH ALKALINITY HEADER
DU1/DU2 DESALTER BRINE
525
HIGH HARDNESS HEADER
X-315/X-320 TANK WATER DRAW
133
X-STREET HEADER
3 PHASE CERNTRIFUGE
EQUALIZATION/ DIVERSION TANK T-301
343
686
343
EQUALIZATION/ DIVESION TANK T-302
343
OIL TO X-320/X-315
606
20
FLOAT TREATER TANK T-304
20
FLOAT SEPARATION TANK T-303
10
10
10
NESHAPS CPI-2 T-307
323
INDUCED GAS FLOTATION UNIT 2 T-309
303
10
343
10
NESHAPS CPI-1 T-306
323
INDUCED GAS FLOTATION UNIT 1 T-308
303
10
10
10
SLUDGE THICKENER T-305
10
NESHAP PRETREATMENT
NOTE: The NESHAP Pretreatment system is currently not in operation.
TO OFFSITE LANDFILL
PEMEX Deer Park Operating Units
ACU Aromatics Concentration Unit
ALKY Alkylation
BEU Benzene Extraction Unit
CCU Cat Cracker Unit
CFH Catalytic Feed Hydrotreater
CGHT Cracked Gas Hydrotreater
COKER Coker
CR-3 Catalytic Reformer No. 3
DHT Distillate Hydrotreater
DU-1 Distilling Unit No. 1
DU-2 Distilling Unit No. 2
FGT Fuel Gas Treater
GOHT Gas Oil Hydrotreater
HDU-1 Hydrodesulphurization Unit No. 1
HDU-2 Hydrodesulphurization Unit No. 2
HP-1 Hydrogen Plant No. 1
HVI High Viscosity Index Distillation Unit
OXU Ortho Xylene Unit
PLAT 2 Platformer 2
PSA Pressure Swing Absorber
SGP Sats Gas Plant
SHCU Selective Hydrocracker Unit
SR-5 Sulfur Recovery Unit No. 5
SR-6 Sulfur Recovery Unit No. 6
SR-7 Sulfur Recovery Unit No. 7
SR-8 Sulfur Recovery Unit No. 8
SWS-1 Sour Water Stripper No. 1
SWS-2 Sour Water Stripper No. 2
VF-3 Vacuum Flasher No. 3
VF-4 Vacuum Flasher No. 4
LEGEND
Oil to Recovery
Stormwater
Stormwater Alternative Flow Path
Process/Non-Process Wastewater/Stormwater
Alternate Flow Path
Spill Diversion
Flows to North Pond
NESHAPs Wastewater
002/003 Stormwater and/or Non/Process Wastewater
002/003 Stormwater Alternate Flow Path
DAF Float
NET Solids
002/003 Wet Weather Flows
Domestic Wastewater
NOTE: All flows represent daily average and are in gallons per minute
BURNS McDONNELL
ATTACHMENT K
WATER BALANCE
PERMIT NO. WQ0000403000
PEMEX DEER PARK REFINERY
HARRIS COUNTY, TEXAS

# Attachment L
# Safety Data Sheets

# Attachment L

## Safety Data Sheet List

| Manufacturers Product Identification Number | Product Use | Chemical Composition, Including CAS | Non-Persistent, or Persistent, or Bioaccumulative | Product or Active Ingredient Half-Life | Product Frequency of Use | Concentration of Whole Product in Waste Stream | Concentration of Active Ingredient in Waste Stream |
|---|---|---|---|---|---|---|---|
| *Nalco 71D5 Plus* | Antifoam | Paraffin Wax (CAS# 8002-74-2)<br>Hydrotreated Light Distillate (CAS# 64742-47-8)<br>Straight Run Middle Distillate (CAS# 64741-44-2)<br>Polypropylene Glycol (CAS# 25322-69-4)<br>Aliphatic alcohol<br>(Proprietary) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco BT-2610* | Barrier Treatment/Roll Release | None | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco 7330* | Biocide | Magnesium Nitrate (CAS# 10377-60-3)<br>5-chloro-2- Methyl-4- Isothiazolin-3- one (CAS# 26172- 55-4)<br>2-Methyl-4- Isothiazolin-3- one (CAS# 2682- 20-4) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Towerbrom 960* | Biocide | Sodium Dichloroisocyanurate (CAS# 2893-78-9)<br>Sodium Bromide (CAS# 7647-15-6) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco-1742* | Boiler Water Treatment | Sodium Hydroxide (CAS# 1310- 73-2) | Non- Persistent | Not Available | Intermittent | Negligible | Negligible |
| *CONQUOR CNQR3475* | Boiler Water Treatment | Diethyl- Hydroxyl- Amine (CAS#3710- 84-7)<br>Hydroquinone (CAS# 123-31- 9) | Non- Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco BT-3011* | Boiler Water Treatment | Sodium Hydroxide (CAS# 1310- 73-2) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *Nexguard 22300* | Boiler Water Treatment | None | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Ultrion 8186* | Clarification Aid | Aluminum Chloride Hydroxide<br>(CAS# 12042-91-0) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco 73550* | Clean Tower Biodetergent | Nonionic Surfactant (Proprietary) Nonionic Alkyl Polyglycoside (Proprietary) | Non- Persistent | Not Available | Intermittent | Negligible | Negligible |
| *3D Trasar 3DT-129* | Cooling Water Treatment | Phosphoric Acid (CAS# 7664-38-2)<br>Zinc Chloride (CAS# 7646- 85-7) | Non- Persistent | Not Available | Intermittent | Negligible | Negligible |

# Attachment L

## Safety Data Sheet List

| Manufacturers Product Identification Number | Product Use | Chemical Composition, Including CAS | Non-Persistent, or Persistent, or Bioaccumulative | Product or Active Ingredient Half-Life | Product Frequency of Use | Concentration of Whole Product in Waste Stream | Concentration of Active Ingredient in Waste Stream |
|---|---|---|---|---|---|---|---|
| *3D Trasar 3DT-198* | Cooling Water Treatment | Sodium Tolyltriazole (CAS# 64665- 57-2) | Persistent | Not Available | Intermittent | Negligible | Negligible |
| *UltrAmine ULTAM130* | Corrosion Inhibitor | Cyclohexylamine (CAS# 108- 91-8)<br>Morpholine (CAS# 110-91- 8) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *Tri-ACT 1800* | Corrosion Inhibitor | Cyclohexylamine (CAS# 108-91-8)<br>Monoethanolamine (CAS# 141-43- 5)<br>Methoxypropylamine (CAS# 5332-73-0) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Nalco 7357* | Corrosion Inhibitor | Sodium Molybdate (CAS# 7631- 95-0) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *Sulfuric Acid* | Corrosion Inhibitor | Sulfuric Acid (CAS# 7664-93-9)<br>Water (CAS# 7732-18-5) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *Tri-ACT 1805* | Corrosion Inhibitor | Cyclohexylamine (CAS# 108-91-8)Monoethanolamine (CAS# 141-43-5)Methoxypropylamine(CAS# 5332-73-0) | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |
| *Bleach (sodium hypochlorite)* | Disinfection | Sodium Hypochlorite (CAS# 7681- 52-9)<br>Sodium Hydroxide (CAS# 1310- 73-2) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *Core Shell 71300* | Flocculent | None | Non- Persistent | Not Available | Intermittent | Negligible | Negligible |
| *3D Trasar 3DT-391* | Multifunctional Cooling Water Treatment | None | Not Available | Not Available | Intermittent | Negligible | Negligible |
| *3D Trasar 3DT-304* | Multifunction al Cooling Water Treatment | Sodium Benzotriazole (CAS #15217-42-2); Sodium Hydroxide (CAS#1310- 72-2) | Not Available | Not Available | Intermittent | Negligible | Negligible |
| *3D Trasar 3DT-393* | Multifunctional Cooling Water Treatment | 2-Phosphono- 1,2,4-Butanetricarbo xylic (CAS # 37971-36-1) Acid; Sulfuric Acid (CAS# 7664-93-9); Benzotriazole (CAS # 95-14-7) | Not Available | Not Available | Intermittent | Negligible | Negligible |

# Attachment L

## Safety Data Sheet List

| Manufacturers Product Identification Number | Product Use | Chemical Composition, Including CAS | Non-Persistent, or Persistent, or Bioaccumulative | Product or Active Ingredient Half-Life | Product Frequency of Use | Concentration of Whole Product in Waste Stream | Concentration of Active Ingredient in Waste Stream |
|---|---|---|---|---|---|---|---|
| *Trasar 22130* | Oxygen Scavenger | Carbohydrazide (CAS# 497-18-7) | Not known | Not Available | Intermittent | Negligible | Negligible |
| *OPTIMER 7194 PLUS* | Water Clarification Aid | None | Potential to bioconcentrate | Not Available | Intermittent | Negligible | Negligible |
| *CAT-FLOC 8103* | Water Treatment/ Water Clarification Aid | None | Non-Persistent | Not Available | Intermittent | Negligible | Negligible |


BURNS
McDONNELL