Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials *
5. Draft permit *
6. Technical summary or fact sheet *

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
   - Inglés
   - Idioma alternativo (español)
4. Materiales de la solicitud **
5. Proyecto de permiso **
6. Resumen técnico u hoja de datos **

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

The Dow Chemical Company (Dow) (CN600356976), operates the Dow La Porte site (RN102414232) groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility. The site is located at 550 Independence Parkway South, in La Porte, Harris County, Texas 77571. The Dow Chemical Company, La Porte Site, formerly manufactured specialty chemicals. Dow ceased chemical manufacturing operations at the La Porte site in 2023. This application requests an individual TPDES discharge permit for coverage of discharge from the existing groundwater recovery and treatment system owned and operated by Dow. Discharges from the groundwater recovery and treatment system are currently permitted under the Dow La Porte site current TPDES permit number WQ0000663000. The existing TPDES will be transferred or terminated in conjunction with issuance of the new TPDES permit. Dow proposes that new discharge point associated with this new permit be identified as Outfall 001 (proposed). The discharge from proposed Outfall 001 will be treated groundwater from the Dow groundwater ORS.

Discharges from proposed Outfall 001 are proposed to be monitored for pH, aniline, benzene, chlorobenzene and trichloroethene. Discharge frequency and rate requested for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day. Specific testing requirements were completed as part of this renewal application and are included in the Industrial Wastewater Application Technical report, Worksheet 2.0. Groundwater from the recovery system will be treated for organics removal through the groundwater treatment unit using a carbon filtration system before being discharged to proposed Outfall 001.



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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMESTICAS' a u´ **/AGUAS PLUVIALES**

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

Dow Chemical Company (Dow) (CN600356976), opera el sistema de eliminación orgánica de aguas subterráneas (ORS, por sus siglas en inglés) del sitio Dow La Porte (RN102414232) en una antigua instalación de fabricación de productos químicos industriales. El sitio está ubicado en la 550 Independence Parkway South, La Porte, Harris County, Texas 77571. Dow Chemical Company, sitio de La Porte, anteriormente fabricaba productos químicos especiales. Dow cesó las operaciones de fabricación de productos químicos en el sitio de La Porte en 2023. Esta aplicación solicita un permiso de descarga TPDES individual para cubrir la descarga del sistema existente de recuperación y tratamiento de aguas subterráneas propiedad de Dow y operado por ella. Las descargas del sistema de recuperación y tratamiento de aguas subterráneas están actualmente permitidas según el permiso TPDES actual del sitio de Dow La Porte número WQ0000663000. El TPDES existente se transferirá o cancelará junto con la emisión del nuevo permiso TPDES. Dow propone que el nuevo punto de descarga asociado con este nuevo permiso se identifique como Desagüe 001 (propuesto). La descarga del Desagüe 001 propuesto será agua subterránea tratada del ORS de agua subterránea de Dow.

Se propone monitorear el pH, anilina, benceno, clorobenceno y tricloroeteno de las descargas del Desagüe 001 propuesto. La frecuencia y tasa de descarga solicitadas para el Desagüe Propuesto 001 serán intermitentes (por lotes) y variables, y no excederán la capacidad máxima de diseño del sistema de recuperación de 80,000 galones por día. Se completaron requisitos de prueba específicos como parte de esta solicitud de renovación y se incluyen en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. El agua subterránea del sistema de recuperación será tratada para eliminar la materia orgánica a través de la unidad de tratamiento de agua subterránea utilizando un sistema de filtración de carbón antes de descargarse al Desagüe 001 propuesto.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0005463000

APPLICATION. The Dow Chemical Company, 2030 Dow Center, Midland, Michigan, 48674, which owns a groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005463000 (EPA I.D. No. TX0146391) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 10,000 gallons per day. The facility will be located at 550 Independence Parkway South, in the city of La Porte, in Harris County, Texas 77571. The discharge route will be from the plant site to unnamed ditch; thence to an unnamed tributary; thence to San Jacinto Bay. TCEQ received this application on July 24, 2024. The permit application will be available for viewing and copying at La Porte Branch Library, Reference Desk, 600 South Broadway Street, La Porte, 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=-95.080277,29.710555&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 The Dow Chemical Company at the address stated above or by calling Ms. Brandi B. McCoy, Texas Regional Water Manager, at 979-238-0636.

Issuance Date: September 5, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0005463000

APLICACIÓN. Dow Chemical Company, 2030 Dow Center, Midland, Michigan, 48674, propietaria de un sistema de eliminación orgánica de aguas subterráneas (ORS, por sus siglas en inglés) en una antigua instalación de fabricación de productos químicos industriales, ha solicitado a Texas Commission on Environmental Quality (TCEQ, por sus siglas en inglés) el propuesto Permiso No. WQ0005463000 (EPA I.D. No. TX0146391) autorizar la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio diario de 10,000 galones por día. La instalación estará ubicada en la 550 Independence Parkway South, en la ciudad de La Porte, en Harris County, Texas 77571. El discharge route se debe a la planta site para unnamed dicho; thence to an unnamed tributary; thence to San Jacinto Bay. TCEQ recibió esta solicitud el 24 de julio de 2024. La solicitud de permiso estará disponible para su visualización y copia en La Porte Branch Library, Reference Desk, 600 South Broadway, La Porte, Texas antes de la fecha en que se publique este aviso en el periódico. La solicitud, incluidas las actualizaciones, y los avisos asociados están disponibles electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como una cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.080277,29.710555&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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener más información de Dow Chemical Company en la dirección indicada anteriormente o llamando a la Sra. Brandi B. McCoy, Gerente Regional de Agua de Texas, al 979-238-0636.

Fecha de emisión 5 de septiembre de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

NEW

Permit No. WQ0005463000

APPLICATION AND PRELIMINARY DECISION. The Dow Chemical Company, 2030 Dow Center, Midland, Michigan 48674, no longer owns or operates the industrial manufacturing at the La Porte Site (LPO), but will continue to operate a groundwater organic removal system, has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005463000, to authorize the intermittent discharge of treated groundwater at a daily maximum flow not to exceed 80,000 gallons per day. The TCEQ received this application on July 24, 2024.

The facility is located at 550 Independence Parkway South, in the City of La Porte, Harris County, Texas 77571. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.080277,29.710555&level=18

The effluent is discharged to an unnamed ditch, thence to a tidal tributary, thence to San Jacinto Bay in Segment No. 2427 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and high aquatic life use for the tidal tributary. The designated uses for Segment No. 2427 are primary contact recreation and high aquatic life use.

In accordance with Title 30 Texas Administrative Code Section 307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in the tidal tributary and San Jacinto Bay, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

The TCEQ Executive Director reviewed this action for consistency with the Texas Coastal Management Program (CMP) goals and policies in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at La Porte Branch Library, Reference Desk, 600 South Broadway Street, La Porte, Texas. 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

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

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

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

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

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

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

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or a timely request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and requests to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at https://www.tceq.texas.gov/goto/comment **within 30 days from the date of newspaper publication of this notice.**

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

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

Further information may also be obtained from The Dow Chemical Company at the address stated above or by calling Ms. Brandi McCoy, Texas Region Water Manager, at (979) 238-0636.

Issued: May 9, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

ANUNCIO DE APLICACIÓN Y DECISIÓN PRELIMINAR PARA PERMISO TPDES PARA AGUAS RESIDUALES INDUSTRIALES

NUEVO

Permiso No. WQ0005463000

APLICACION Y DECISIÓN PRELIMINAR. Dow Chemical Company (Dow, por sus siglas en inglés), 2030 Dow Center, Midland, Michigan 48674, ya no posee ni opera la fabricación industrial en el sitio La Porte (LPO, por sus siglas en inglés), pero continuará operando un sistema de eliminación de materia orgánica de aguas subterráneas, ha solicitado a la Texas Commission on Environmental Quality (TCEQ, por sus siglas en inglés) un nuevo permiso, el Texas Pollutant Discharge Elimination System (TPDES, por sus siglas en inglés) Permiso No. WQ0005463000, autorizar la descarga intermitente de agua subterránea tratada con un caudal máximo diario que no exceda los 80,000 galones por día. La TCEQ recibió esta aplicación el 24 de julio de 2024.

La instalación está ubicada en la 550 Independence Parkway South, en la ciudad de La Porte, Harris County, Texas 77571. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no es parte de la aplicación o aviso. Para conocer la ubicación exacta, consulte la aplicación.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.080277,29.710555&level=18

El efluente se descarga a una zanja sin nombre, de allí a un afluente de marea, de allí a San Jacinto Bay en el Segmento No. 2427 de las Bahías y Estuarios. Los usos no clasificados del agua receptora son el uso mínimo de vida acuática para la zanja sin nombre y el uso de vida acuática alta para el afluente de marea. Los usos designados para el Segmento No. 2427 son recreación de contacto primario y uso de alta vida acuática.

De acuerdo con el Título 30 del Código Administrativo de Texas, Sección 307.5 y los *Procedimientos para Implementar los Estándares de Calidad del Agua Superficial de Texas* (junio de 2010), se realizó una revisión antidegradación de las aguas receptoras. Una revisión antidegradación de Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existentes no se verán afectados por esta acción de permiso. Se mantendrán los criterios numéricos y descriptivos para proteger los usos existentes. Una revisión de Nivel 2 ha determinado preliminarmente que no se espera una degradación significativa de la calidad del agua en el afluente de las mareas y San Jacinto Bay, que se ha identificado como de alto uso de vida acuática. Se mantendrán y protegerán los usos existentes. La determinación preliminar puede ser reexaminada y puede ser modificada si se recibe nueva información.

El director ejecutivo de TCEQ revisó esta acción para verificar su consistencia con las metas y políticas del Texas Coastal Management Program (CMP, por sus siglas en inglés) de acuerdo con las regulaciones de la Oficina General de Tierras y ha determinado que la acción es consistente con las metas y políticas aplicables del CMP.

El director ejecutivo de la TCEQ ha completado el examen técnico de la aplicación y ha preparado un borrador del permiso. El borrador del permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El director ejecutivo ha tomado una decisión preliminar de que este permiso, si se concede, cumple con todos los requisitos estatutarios y reglamentarios. La aplicación de permiso, la decisión preliminar del director ejecutivo y el borrador del permiso están disponibles para su visualización y copia en La Porte Branch Library, Reference Desk, 600 South Broadway Street, La Porte, Texas. La aplicación, incluidas las actualizaciones, y los avisos asociados están disponibles electrónicamente en la siguiente página web:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications

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

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta aplicación. El propósito de una reunión pública es brindar la oportunidad de presentar comentarios escritos u orales o de hacer preguntas sobre la aplicación. Por lo general, la TCEQ celebrará una reunión pública si el director ejecutivo determina que existe un grado significativo de interés público en la aplicación o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnado.

OPORTUNIDAD PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para los comentarios públicos, el director ejecutivo considerará los comentarios y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **La respuesta a los comentarios, junto con la decisión del director ejecutivo sobre la aplicación, se enviará por correo a todas las personas que presentaron comentarios públicos o que solicitaron estar en una lista de correo para esta aplicación. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o una reconsideración de la decisión del director ejecutivo.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho en disputa que envíe durante el período de comentarios; y la declaración "[Yo/nosotros] solicito una audiencia de caso impugnado." Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o

actividad propuesta; proporcionar la información mencionada anteriormente con respecto a la ubicación y la distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger son relevantes para el propósito del grupo.

Después del cierre de todos los períodos de comentarios y solicitudes aplicables, el director ejecutivo enviará la aplicación y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.

La Comisión solo puede conceder una solicitud de audiencia de un caso impugnado sobre cuestiones que el solicitante presentó en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de una audiencia se limitará a cuestiones de hecho en disputa o preguntas mixtas de hecho y derecho relacionadas con preocupaciones relevantes y materiales sobre la calidad del agua presentadas durante el período de comentarios.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El director ejecutivo puede emitir la aprobación final de la aplicación a menos que se presente una solicitud de audiencia de caso impugnado a tiempo o una solicitud de reconsideración oportuna. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el director ejecutivo no emitirá la aprobación final del permiso y enviará la aplicación y las solicitudes a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si presenta comentarios públicos, una solicitud para una audiencia de caso impugnado o una reconsideración de la decisión del director ejecutivo, se le agregará a la lista de correo de esta aplicación específica para recibir avisos públicos futuros enviados por correo por la Office of the Chief Clerk. Además, puede solicitar que se le agregue a: (1) la lista permanente para un nombre y número de permiso de solicitante específico; y (2) la lista de correo de un condado específico. Si desea ser incluido en la lista de correo permanente y del condado, especifique claramente qué lista(s) y envíe su solicitud a la oficina del secretario principal de TCEQ a la dirección que aparece a continuación.

Todos los comentarios públicos por escrito y las solicitudes de reuniones públicas deben enviarse a la Office of the Chief, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente en https://www.tceq.texas.gov/goto/comment **dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.**

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

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben presentarse electrónicamente en https://www.tceq.texas.gov/goto/comment, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información de contacto que proporcione, incluido su nombre, número de teléfono, dirección de correo electrónico y dirección física, pasará a formar parte del registro público de la agencia. Para obtener más información sobre esta aplicación de permiso o el proceso de permisos, llame al TCEQ Public

Education Program, sin cargo, al 1-800-687-4040 o visite su sitio web en https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información de Dow Chemical Company en la dirección indicada anteriormente o llamando a la Sra. Brandi McCoy, Gerente de Agua de la Región de Texas, al (979) 238-0636.

Emitido: 9 de mayo de 2025

TPDES PERMIT NO.
WQ0005463000
[For TCEQ office use only -
EPA I.D. No. TX0146391]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

The Dow Chemical Company

whose mailing address is

2030 Dow Center
Midland, Michigan 48674

is authorized to treat and discharge wastes from a groundwater organic removal system at the La Porte Site (SIC 2869 and 3086)

located at 550 Independence Parkway South, in the City of La Porte, Harris County, Texas 77571

via Outfall 001 to an unnamed ditch, thence to a tidal tributary, thence to San Jacinto Bay in Segment No. 2427 of the Bays and Estuaries

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of permit issuance.

ISSUED DATE:

_____
For the Commission

1. During the period beginning upon the date of permit issuance and lasting through the date of permit expiration, the permittee is authorized to discharge treated groundwater subject to the following effluent limitations:

   Volume: Intermittent and flow-variable. The daily maximum flow shall not exceed 0.08 MGD.

Effluent Characteristics	Discharge Limitations			Minimum Self-Monitoring Requirements	
	Daily Average mg/L	Daily Maximum mg/L	Single Grab mg/L	Report Daily Average and Daily Maximum Measurement Frequency	Sample Type
Flow	Report, MGD	0.08 MGD	N/A	1/day [1]	Meter
Aniline	N/A	0.16	0.32	1/month [1]	Composite
Benzene	0.037	0.136	0.272	1/month [1]	Composite
Chlorobenzene	0.015	0.028	0.056	1/month [1]	Composite
Trichloroethene	0.021	0.054	0.108	1/month [1]	Composite

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/month [1] by grab sample.

3. There must be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

4. Effluent monitoring samples must be taken at the following location: At Outfall 001, at the outlet pipe for final discharge of the organic recovery system treatment unit prior to discharge to the unnamed ditch.

[1] When discharge occurs.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC §§305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in Texas Water Code §26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder, and limited to major domestic wastewater discharge facilities with a one million gallons per day or greater permitted flow.

    b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

    d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

    e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

    f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

        ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

    b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

    c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

    d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the “daily discharge” is calculated as the total

mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day.

The "daily discharge" determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (Fecal coliform, *E. coli*, or Enterococci) – the number of colonies of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substitute value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD × Concentration, mg/L × 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

   a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC §319.9(c).

   b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

   Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge that is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act; TWC Chapters 26, 27, and 28; and THSC Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

   a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

   b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

   a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

   b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR §264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

   c. Records of monitoring activities shall include the following:

      i. date, time, and place of sample or measurement;
      ii. identity of individual who collected the sample or made the measurement;
      iii. date and time of analysis;
      iv. identity of the individual and laboratory who performed the analysis;
      v. the technique or method of analysis; and
      vi. the results of the analysis or measurement and quality assurance/quality control records.

      The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

   If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

   All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

   Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the regional office and the Enforcement Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC §305.125(9) any noncompliance that may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the regional office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the regional office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
      i. unauthorized discharges as defined in Permit Condition 2(g).
      ii. any unanticipated bypass that exceeds any effluent limitation in the permit.
      iii. violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation that deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the regional office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the regional office, orally or by facsimile transmission within 24 hours, and both the regional office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

   a. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) that is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
      i. one hundred micrograms per liter (100 µg/L);
      ii. two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
      iii. five (5) times the maximum concentration value reported for that pollutant in the permit application; or
      iv. the level established by the TCEQ.

b. That any activity has occurred or will occur that would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. five hundred micrograms per liter (500 μg/L);
ii. one milligram per liter (1 mg/L) for antimony;
iii. ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. the level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC §305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

a. any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA §301 or §306 if it were directly discharging those pollutants;

b. any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

c. for the purpose of this paragraph, adequate notice shall include information on:

i. the quality and quantity of effluent introduced into the POTW; and
ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. violation of any terms or conditions of this permit;
ii. obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending, or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment,

revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§305.62 and 305.66 and TWC §7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC §305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility that does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA §402, or any requirement imposed in a pretreatment program approved under the CWA §§402(a)(3) or 402(b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC Chapter 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC §7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. the alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC §305.534 (relating to New Sources and New Dischargers); or

      ii. the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

      iii. the alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes that are not described in the permit application or that would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

   e. In accordance with the TWC §26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

   f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA §307(a) for a toxic pollutant that is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA §307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC §305.64 (relating to Transfer of Permits) and 30 TAC §50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

   This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to Texas Water Code Chapter 11.

8. Property Rights

   A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

   The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

    The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy.

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;
       ii. an entity (as that term is defined in 11 USC, §101(15)) controlling the permittee or listing the permit or permittee as property of the estate; or
       iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.

    b. This notification must indicate:

       i. the name of the permittee;
       ii. the permit number(s);
       iii. the bankruptcy court in which the petition for bankruptcy was filed; and
       iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC §7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words “confidential business information” on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion or upgrading of the domestic wastewater treatment or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment or collection facilities. In the case of a domestic wastewater treatment facility that reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC §335.1 shall comply with these provisions:

a. Any solid waste, as defined in 30 TAC §335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC §335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC §335.5.

e. The term “industrial solid waste management unit” means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

i. volume of waste and date(s) generated from treatment process;
ii. volume of waste disposed of on-site or shipped off-site;
iii. date(s) of disposal;

iv. identity of hauler or transporter;
v. location of disposal site; and
vi. method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC Code Chapter 361.

TCEQ Revision 05/2021

OTHER REQUIREMENTS

1. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation, followed by a written report within five working days to TCEQ Region 12 and Compliance Monitoring Team (MC 224):

Pollutant	MAL (mg/L)
Aniline	N/A
Benzene	0.010
Chlorobenzene	0.010
Trichloroethene	0.010

Test methods used must be sensitive enough to demonstrate compliance with the permit effluent limitations. If an effluent limit for a pollutant is less than the MAL, then the test method for that pollutant must be sensitive enough to demonstrate compliance at the MAL. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit, with consideration given to the MAL for the pollutants specified above.

When an analysis of an effluent sample for a pollutant listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form:

> "The reported value(s) of zero for [list pollutant(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: (1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and (2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a pollutant indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that pollutant, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero may not be used.

2. The Executive Director reviewed this action and found that the action is consistent with the applicable Texas Coastal Management Program (CMP) goals and policies and will not adversely affect any applicable coastal natural resource areas identified by the CMP.

3. The permittee shall remove/inactivate the authorization of groundwater at Outfall 001 in TPDES Permit No. WQ0000663000 when the discharge in this permit starts.

4. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

5. The following composite sampling techniques apply to volatile organic compounds. The permittee shall manually collect a minimum of four aliquots (grab samples) in clean zero-head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test

method. These aliquots must be combined in the laboratory to represent the composite sample of the discharge. One of the following alternative methods shall be used to composite these aliquots.

A. Each aliquot is poured into a syringe. The plunger is added, and the volume in the syringe is adjusted to 1¼ mL. Each aliquot (1¼ mL) is injected into the purging chamber of the purge and trap system. After four injections (total 5 mL), the chamber is purged. Only one analysis or run is required since the aliquots are combined prior to analysis.

B. Chill the four aliquots to 4° Centigrade. These aliquots must be of equal volume. Carefully pour the contents of each of the four aliquots into a 250-500 mL flask, which is chilled in a wet ice bath. Stir the mixture gently with a clean glass rod while in the ice bath. Carefully fill two or more clean 40 mL zero-head-space vials from the flask and dispose of the remainder of the mixture. Analyze one of the aliquots to determine the concentration of the composite sample. The remaining aliquot(s) are replicate composite samples that can be analyzed if desired or necessary.

C. Alternative sample compositing methods may be used following written approval by this Office.

The individual samples resulting from the application of these compositing methods must be analyzed following the procedures specified for the selected test method. The resulting analysis shall be reported as the daily composite concentration.

As an option to the above compositing methods, the permittee may manually collect a minimum of four aliquots (grab samples) in clean zero-head-space containers at regular intervals during the actual hours of discharge during the 24-hour sampling period using sample collection, preservation, and handling techniques specified in the test method. A separate analysis must be conducted for each discrete grab sample following the approved test methods. The determination of daily composite concentration must be the arithmetic average (weighted by flow) of all grab samples collected during the 24-hour sampling period.

STATEMENT OF BASIS/TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	The Dow Chemical Company; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005463000 (EPA I.D. No. TX0146391)
Regulated activity:	Industrial wastewater permit
Type of application:	New permit
Request:	New permit
Authority:	Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit.

PROJECT DESCRIPTION AND LOCATION

The Dow Chemical Company (Dow) no longer owns or operates the industrial manufacturing at the La Porte Site (LPO), but will continue to operate a groundwater organic removal system at this site. The facility has historically functioned as a manufacturer of specialty chemicals. Dow ceased chemical manufacturing operations at the LPO site in 2023. In December 2019, Dow sold the majority of the land and above-ground assets including the boiler and cooling tower to another entity. Dow ceased operation of these assets at the end of 2024 and the decommissioning of manufacturing infrastructure will be complete by the end of 2025. Dow will maintain ownership and operation of the groundwater organics recovery system (ORS) at the site and remediation ownership of ORS-associated groundwater liabilities. The wastewater consists of the treated groundwater only. The LPO groundwater remediation program has been established in the LPO Resources Conservation and Recovery Act (RCRA) Hazardous Wastes Pemit No. 50523 (RCRA permit). Dow is required to recover subsurface groundwater at various locations throughout the site in multiple groundwater zones (sand layers below surface). Groundwater is pumped from a network of recovery wells and a recovery trench to skid units before being sent to a holding tank. Groundwater is then pumped from the holding tank to the ORS treatment unit for organics removal using a carbon filtration system, before being discharged to the proposed new Outfall 001. Groundwater indicator parameters monitored in the Corrective Action Program include aniline, benzene, chlorobenzene, and trichloroethene.

Currently, the proposed wastestream is authorized at Outfall 001 in TPDES Permit No. WQ0000663000. The permit action is replacing the authorization of treated groundwater from the existing permit to the new proposed TPDES Permit No. WQ0005463000.

The facility is located at 550 Independence Parkway South, in the City of La Porte, Harris County, Texas 77571.

Discharge Route
The effluent is discharged to an unnamed ditch, thence to a tidal tributary, thence to San Jacinto Bay in Segment No. 2427 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and high aquatic life use for the tidal tributary. The designated uses for Segment No. 2427 are primary contact recreation and high aquatic life use. The effluent limits in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

Antidegradation Review
In accordance with 30 TAC §307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in the tidal tributary and San Jacinto Bay, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

Endangered Species Review
The discharge from this permit is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and the EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS's biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Impaired Water Bodies
Segment No. 2427 is currently listed on the state's inventory of impaired and threatened waters, the 2022 Clean Water Act §303(d) list. The listings are for dioxin in edible tissue and Polychlorinated biphenyls (PCBs) in edible tissue throughout the entire segment (AU 2427_01).

There are no manufacturing activities conducted at this the facility. Data submitted with the application showed that PCBs were not expected for the proposed effluent. This permit action is therefore not expected to contribute to the PCBs impairment in Segment No. 2427. Information submitted in Worksheet 2.0, Table 12 of the Technical Report of the application indicates that the facility has no reason to believe that dioxin or its congeners may be present in its effluent. In addition, the treated groundwater discharge authorized in this new permit is currently authorized for discharge in Permit No. WQ0000663000 and by issuance of this permit, no increase in flow or pollutants loading is authorized. Therefore, this permit action is not expected to contribute to the dioxin impairment in Segment No. 2427.

Completed Total Maximum Daily Loads (TMDLs)
There are no completed TMDLs for Segment No. 2427.

Dissolved Oxygen
Due to the low concentration of oxygen demanding constituents expected in the wastewater, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the intermittent discharge of treated groundwater at a daily maximum flow not to exceed 80,000 gallons per day via Outfall 001.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L
001	Flow	Report, MGD	0.08 MGD
	Aniline	N/A	0.16
	Benzene	0.037	0.136
	Chlorobenzene	0.015	0.028
	Trichloroethene	0.021	0.054
	pH	6.0 SU, minimum	9.0 SU

OUTFALL LOCATION

Outfall	Latitude	Longitude
001	29.7097222 N	95.0763889 W

Technology-Based Effluent Limitations
Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. The discharge of treated groundwater is not subject to any Federal Effluent limitation Guidelines (ELGs). The technology-based effluent limitations for aniline, benzene, chlorobenzene, trichloroethene are proposed based on BPJ because these pollutants are currently monitored as the groundwater indicator parameters in the Corrective Action Program. The effluent limits for pH, benzene, chlorobenzene, and trichloroethene limits are applied by BPJ using 40 CFR 414 concentration values and were requested by the permittee in the application to be applied in the draft permit. The effluent limits for aniline requested by the permittee and are used from Texas Risk Reduction Program Tier 1 protective concentration levels (PCL) Class 3 residential groundwater PCL.

Water Quality-Based Effluent Limitations
Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix A. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated February 11, 2025. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

This is an existing facility for a new application. Data reported in the application was screened against the calculated water quality-based effluent limitations. No limits are required for the submitted pollutants based on this screening.

This discharge is into a freshwater body that flows into a saltwater segment. Therefore, data from a representative freshwater segment is used for screening the freshwater portion of the discharge route. The values for pH, total suspended solids, and chloride for Segment No. 1102 have been used for evaluation of the immediate receiving waters.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening
This discharge is into a freshwater body that flows into a saltwater segment. Therefore, the screening (Appendix B) has been conducted to protect the fresh water receiving waters from excessive dissolved solids loading. Based on the screening, no effluent limitations or monitoring and reporting requirements are needed for TDS, chloride, or sulfate for the discharge.

pH Screening
The draft permit includes pH limits of 6.0 – 9.0 SU at Outfall 001, which discharges into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria.

Whole Effluent Toxicity Testing (Biomonitoring)
The Permit No. WQ0000663000 authorized process wastewater discharges while this permit does not and the authorized flow volume is significantly decreased in the draft permit. Therefore, based on TCEQ's practices, biomonitoring requirements are not included at Outfall 001 in the draft permit for a minor facility and this type of discharge does not meet the threshold for establishing biomonitoring from conditions established in the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010).

SUMMARY OF CHANGES FROM APPLICATION

The applicant requested the following request that the Executive Director recommends granting partially.

The permittee requested the sampling frequency as once per six months. Given that this is a new application and the facility has a high compliance history, the proposed frequency of once per month is because the monitoring frequency for chlorobenzene was increased to 1/month which has been proposed for all pollutants in this draft permit.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on July 24, 2024 and additional information received on August 8, 2024.
2. Existing permits: TPDES Permit No. WQ0000663000 issued on October 15, 2019.
3. TCEQ Rules.
4. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
7. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.

8. *Procedures to Implement the Texas Surface Water Quality Standards* (IPs), Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
9. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
10. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
11. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
12. EPA Effluent Guidelines: 40 CFR 414 applied by BPJ .
13. Consistency with the Coastal Management Plan: The executive director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.
14. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
15. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).
16. Resources Conservation and Recovery Act (RCRA) Hazardous Wastes Pemit No. 50523.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the Chief Clerk, along with the Executive Director's preliminary decision contained in the technical summary or fact sheet. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Ruiqiang Zong at (512) 239-4589.

Ruiqiang Zong
Ruiqiang Zong

February 11, 2025
Date

Appendix A
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #9 - INTERMITTENT FRESHWATER STREAM WITHIN 3 MILES OF A NARROW TIDAL RIVER

The water quality-based effluent limitations developed below are calculated using:
Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater and Saltwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	The Dow Chemical Company
TPDES Permit No:	WQ0005463000
Outfall No:	001
Prepared by:	RUIQIANG ZONG
Date:	February 11, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	an unnamed ditch within three miles of a tidal tributary
Segment No. for Freshwater Ambient Data:	1102
TSS (mg/L) (Intermittent):	14
pH (Standard Units) (Intermittent):	7.4
Hardness (mg/L as $CaCO_3$) (Intermittent):	110
Chloride (mg/L) (Intermittent):	112
Effluent Flow for Aquatic Life (MGD):	0.08
% Effluent for Acute Aquatic Life (Intermittent):	100
Saltwater Receiving Waterbody:	A tidal tributary
Segment No.:	2427
TSS (mg/L) (Narrow Tidal River):	11
Critical Low Flow [7Q2] (cfs):	0.8
% Effluent for Chronic Aquatic Life (Narrow Tidal River):	13.399
% Effluent for Acute Aquatic Life (Narrow Tidal River):	38.229
Effluent Flow for Human Health (MGD):	0.08
Harmonic Mean Flow (cfs):	1.13
% Effluent for Human Health (Narrow Tidal River):	9.872

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	69715.05	0.506		1.00	Assumed
Cadmium	6.60	-1.13	201778.70	0.261		1.00	Assumed
Chromium (total)	6.52	-0.93	284512.22	0.201		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	284512.22	0.201		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	148547.47	0.325		1.00	Assumed
Lead	6.45	-0.80	341269.57	0.173		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	108819.57	0.396		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	158302.63	0.311		1.00	Assumed
Zinc	6.10	-0.70	198477.09	0.265		1.00	Assumed

Estuarine Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Cadmium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (total)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (trivalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	4.85	-0.72	12594.97	0.878		1.80	30 TAC § 307
Lead	6.06	-0.85	149560.26	0.378		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	5.86	-0.74	122848.37	0.425		1.00	Assumed
Zinc	5.36	-0.52	65837.87	0.580		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*SW Acute Criterion (µg/L)*	*SW Chronic Criterion (µg/L)*	*FW WLAa (µg/L)*	*SW WLAa (µg/L)*	*SW WLAc (µg/L)*	*FW LTAa (µg/L)*	*SW LTAa (µg/L)*	*SW LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	1.3	N/A	3.0	3.40	N/A	1.72	1.95	N/A	2.53	5.35
Aluminum	991	N/A	N/A	991	N/A	N/A	568	N/A	N/A	835	1766
Arsenic	340	149	78	672	390	582	385	223	448	328	695
Cadmium	9.4	40.0	8.75	36.0	105	65	20.6	60.0	50.3	30.3	64.2
Carbaryl	2.0	613	N/A	2.0	1603.49	N/A	1.15	918.80	N/A	1.68	3.56
Chlordane	2.4	0.09	0.004	2.4	0.235	0.030	1.38	0.135	0.023	0.034	0.071
Chlorpyrifos	0.083	0.011	0.006	0.083	0.029	0.045	0.048	0.016	0.034	0.024	0.051
Chromium (trivalent)	616	N/A	N/A	3070	N/A	N/A	1759	N/A	N/A	2586	5470
Chromium (hexavalent)	15.7	1090	49.6	15.7	2851	370	9.00	1634	285	13.2	28.0
Copper	15.5	24.3	6.48	47.8	72.4	55.1	27.4	41.5	42.4	40.3	85.3
Cyanide (free)	45.8	5.6	5.6	45.8	14.6	41.8	26.2	8.4	32.2	12.3	26.1
4,4'-DDT	1.1	0.13	0.001	1.1	0.340	0.007	0.630	0.195	0.0057	0.008	0.018
Demeton	N/A	N/A	0.1	N/A	N/A	0.75	N/A	N/A	0.575	0.84	1.79
Diazinon	0.17	0.819	0.819	0.17	2.14	6.1	0.097	1.23	4.71	0.143	0.303
Dicofol [Kelthane]	59.3	N/A	N/A	59.3	N/A	N/A	34.0	N/A	N/A	49.9	106
Dieldrin	0.24	0.71	0.002	0.24	1.86	0.015	0.138	1.06	0.011	0.017	0.036
Diuron	210	N/A	N/A	210	N/A	N/A	120	N/A	N/A	177	374
Endosulfan I (*alpha*)	0.22	0.034	0.009	0.22	0.089	0.067	0.126	0.051	0.052	0.075	0.158
Endosulfan II (*beta*)	0.22	0.034	0.009	0.22	0.089	0.067	0.126	0.051	0.052	0.075	0.158
Endosulfan sulfate	0.22	0.034	0.009	0.22	0.089	0.067	0.126	0.051	0.052	0.075	0.158
Endrin	0.086	0.037	0.002	0.086	0.097	0.015	0.049	0.055	0.011	0.017	0.036
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.075	N/A	N/A	0.057	0.084	0.179
Heptachlor	0.52	0.053	0.004	0.52	0.139	0.030	0.298	0.079	0.023	0.034	0.071
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.16	N/A	1.126	0.419	N/A	0.645	0.240	N/A	0.353	0.746
Lead	72	133	5.3	414	920	105	237	527	81	118	251
Malathion	N/A	N/A	0.01	N/A	N/A	0.075	N/A	N/A	0.057	0.084	0.179
Mercury	2.4	2.1	1.1	2.4	5.49	8.2	1.38	3.15	6.3	2.02	4.28
Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.224	N/A	N/A	0.172	0.253	0.536
Mirex	N/A	N/A	0.001	N/A	N/A	0.007	N/A	N/A	0.0057	0.008	0.018
Nickel	508	118	13.1	1281	309	98	734	177	75	111	234
Nonylphenol	28	7	1.7	28	18.3	12.7	16.0	10.5	9.8	14.4	30.4
Parathion (ethyl)	0.065	N/A	N/A	0.065	N/A	N/A	0.037	N/A	N/A	0.055	0.116
Pentachlorophenol	13.0	15.1	9.6	13.0	39.5	72	7.5	22.6	55.2	11.0	23.2
Phenanthrene	30	7.7	4.6	30	20.1	34.3	17.2	11.5	26.4	17.0	35.9

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*SW Acute Criterion (µg/L)*	*SW Chronic Criterion (µg/L)*	*FW WLAa (µg/L)*	*SW WLAa (µg/L)*	*SW WLAc (µg/L)*	*FW LTAa (µg/L)*	*SW LTAa (µg/L)*	*SW LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Polychlorinated Biphenyls [PCBs]	2.0	10	0.03	2.0	26.2	0.224	1.146	15.0	0.172	0.253	0.536
Selenium	20	564	136	20	1475	1015	11.5	845	782	16.8	35.6
Silver	0.8	2	N/A	23.62	12.3	N/A	13.53	7.05	N/A	10.36	21.9
Toxaphene	0.78	0.21	0.0002	0.78	0.549	0.0015	0.447	0.315	0.0011	0.0017	0.0036
Tributyltin [TBT]	0.13	0.24	0.0074	0.13	0.628	0.055	0.074	0.360	0.043	0.063	0.132
2,4,5 Trichlorophenol	136	259	12	136	677	90	77.9	388	69	101	214
Zinc	127	92.7	84.2	480	418	1084	275	240	834	352	745

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	115	1165	1083	1592	3369
Aldrin	1.147E-05	1.16E-04	1.08E-04	1.59E-04	3.36E-04
Anthracene	1317	13340	12406	18237	38584
Antimony	1071	10848	10089	14831	31377
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	5885	5473	8046	17021
Benzidine	0.107	1.08	1.01	1.48	3.13
Benzo(*a*)anthracene	0.025	0.253	0.236	0.346	0.73
Benzo(*a*)pyrene	0.0025	0.025	0.024	0.035	0.073
Bis(chloromethyl)ether	0.2745	2.78	2.59	3.80	8.0
Bis(2-chloroethyl)ether	42.83	434	403	593	1255
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	76	71	105	221
Bromodichloromethane [Dichlorobromomethane]	275	2786	2591	3808	8057
Bromoform [Tribromomethane]	1060	10737	9985	14679	31055
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	466	433	637	1348
Chlordane	0.0025	0.025	0.024	0.035	0.073
Chlorobenzene	2737	27724	25783	37901	80186
Chlorodibromomethane [Dibromochloromethane]	183	1854	1724	2534	5361
Chloroform [Trichloromethane]	7697	77965	72507	106586	225498
Chromium (hexavalent)	502	5085	4729	6952	14707
Chrysene	2.52	25.5	23.7	34.9	74
Cresols [Methylphenols]	9301	94212	87617	128798	272490
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.020	0.019	0.028	0.059
4,4'-DDE	0.00013	0.0013	0.0012	0.0018	0.0038
4,4'-DDT	0.0004	0.0041	0.0038	0.006	0.012
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	4791	4456	6550	13857
1,2-Dibromoethane [Ethylene Dibromide]	4.24	43	39.94	59	124
m-Dichlorobenzene [1,3-Dichlorobenzene]	595	6027	5605	8239	17432
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	33416	31077	45684	96650
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	22.7	21.1	31.0	66
1,2-Dichloroethane	364	3687	3429	5041	10664
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	558265	519186	763204	1614669
Dichloromethane [Methylene Chloride]	13333	135054	125600	184632	390615
1,2-Dichloropropane	259	2623	2440	3587	7588
1,3-Dichloropropene [1,3-Dichloropropylene]	119	1205	1121	1648	3486
Dicofol [Kelthane]	0.30	3.04	2.83	4.2	8.8
Dieldrin	2.0E-05	2.03E-04	1.88E-04	2.77E-04	5.86E-04
2,4-Dimethylphenol	8436	85451	79469	116819	247149
Di-*n*-Butyl Phthalate	92.4	936	870	1280	2707
Dioxins/Furans [TCDD Equivalents]	7.97E-08	8.07E-07	7.51E-07	1.10E-06	2.33E-06
Endrin	0.02	0.203	0.188	0.277	0.59
Epichlorohydrin	2013	20390	18963	27875	58975
Ethylbenzene	1867	18911	17588	25854	54697
Ethylene Glycol	1.68E+07	1.70E+08	1.58E+08	2.33E+08	4.92E+08

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.0010	0.0009	0.0014	0.0029
Heptachlor Epoxide	0.00029	0.0029	0.0027	0.0040	0.0085
Hexachlorobenzene	0.00068	0.007	0.006	0.009	0.020
Hexachlorobutadiene	0.22	2.23	2.07	3.05	6.4
Hexachlorocyclohexane (*alpha*)	0.0084	0.085	0.079	0.116	0.246
Hexachlorocyclohexane (*beta*)	0.26	2.63	2.45	3.60	7.6
Hexachlorocyclohexane (*gamma*) [Lindane]	0.341	3.45	3.21	4.7	10.0
Hexachlorocyclopentadiene	11.6	117	109	161	340
Hexachloroethane	2.33	23.6	21.9	32.3	68
Hexachlorophene	2.90	29.4	27.3	40.2	85
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	161886	150554	221314	468223
Lead	3.83	103	95	140	297
Mercury	0.0250	0.253	0.236	0.346	0.73
Methoxychlor	3.0	30.4	28.3	42	88
Methyl Ethyl Ketone	9.92E+05	1.00E+07	9.34E+06	1.37E+07	2.91E+07
Methyl *tert*-butyl ether [MTBE]	10482	106175	98743	145152	307090
Nickel	1140	11547	10739	15786	33398
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	18972	17644	25937	54873
N-Nitrosodiethylamine	2.1	21.3	19.8	29.1	62
N-Nitroso-di-*n*-Butylamine	4.2	43	39.6	58	123
Pentachlorobenzene	0.355	3.60	3.34	4.9	10.4
Pentachlorophenol	0.29	2.94	2.73	4.02	8.5
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.006	0.006	0.009	0.019
Pyridine	947	9592	8921	13114	27744
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	2.43	2.26	3.32	7.0
1,1,2,2-Tetrachloroethane	26.35	267	248	365	772
Tetrachloroethylene [Tetrachloroethylene]	280	2836	2638	3877	8203
Thallium	0.23	2.33	2.17	3.18	6.7
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.111	0.104	0.152	0.322
2,4,5-TP [Silvex]	369	3738	3476	5110	10811
1,1,1-Trichloroethane	784354	7.94E+06	7.39E+06	1.09E+07	2.30E+07
1,1,2-Trichloroethane	166	1681	1564	2299	4863
Trichloroethylene [Trichloroethene]	71.9	728	677	996	2106
2,4,5-Trichlorophenol	1867	18911	17588	25854	54697
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	167	155	228	483

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.77	2.15
Aluminum	584	710
Arsenic	230	279
Cadmium	21.2	25.8
Carbaryl	1.18	1.43
Chlordane	0.024	0.029
Chlorpyrifos	0.017	0.021
Chromium (trivalent)	1810	2198
Chromium (hexavalent)	9.26	11.2
Copper	28.2	34.3
Cyanide (free)	8.6	10.5
4,4'-DDT	0.0059	0.0072
Demeton	0.591	0.72
Diazinon	0.100	0.122
Dicofol [Kelthane]	35.0	42.5
Dieldrin	0.012	0.014
Diuron	124	150
Endosulfan I (*alpha*)	0.052	0.064
Endosulfan II (*beta*)	0.052	0.064
Endosulfan sulfate	0.052	0.064
Endrin	0.012	0.014
Guthion [Azinphos Methyl]	0.059	0.072
Heptachlor	0.024	0.029
Hexachlorocyclohexane (*gamma*) [Lindane]	0.247	0.300
Lead	83	101
Malathion	0.059	0.072
Mercury	1.42	1.72
Methoxychlor	0.177	0.215
Mirex	0.006	0.007
Nickel	77	94
Nonylphenol	10.1	12.2
Parathion (ethyl)	0.038	0.047
Pentachlorophenol	7.7	9.3
Phenanthrene	11.9	14.4
Polychlorinated Biphenyls [PCBs]	0.177	0.215
Selenium	11.8	14.3
Silver	7.25	8.81
Toxaphene	0.0012	0.0014
Tributyltin [TBT]	0.044	0.053
2,4,5 Trichlorophenol	71.0	86.2
Zinc	247	299

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	1115	1354
Aldrin	1.11E-04	1.35E-04
Anthracene	12766	15502
Antimony	10382	12606
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	5632	6839
Benzidine	1.04	1.26
Benzo(*a*)anthracene	0.242	0.294
Benzo(*a*)pyrene	0.024	0.029
Bis(chloromethyl)ether	2.66	3.23
Bis(2-chloroethyl)ether	415	504
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	73	89
Bromodichloromethane [Dichlorobromomethane]	2666	3237
Bromoform [Tribromomethane]	10275	12477
Cadmium	N/A	N/A
Carbon Tetrachloride	446	541
Chlordane	0.024	0.029
Chlorobenzene	26531	32216
Chlorodibromomethane [Dibromochloromethane]	1774	2154
Chloroform [Trichloromethane]	74610	90598
Chromium (hexavalent)	4866	5909
Chrysene	24.4	29.7
Cresols [Methylphenols]	90158	109478
Cyanide (free)	N/A	N/A
4,4'-DDD	0.019	0.024
4,4'-DDE	0.0013	0.0015
4,4'-DDT	0.0039	0.0047
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	4585	5567
1,2-Dibromoethane [Ethylene Dibromide]	41	50
m-Dichlorobenzene [1,3-Dichlorobenzene]	5768	7003
o-Dichlorobenzene [1,2-Dichlorobenzene]	31979	38831
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	21.7	26.4
1,2-Dichloroethane	3528	4284
1,1-Dichloroethylene [1,1-Dichloroethene]	5.34E+05	6.49E+05
Dichloromethane [Methylene Chloride]	129242	156937
1,2-Dichloropropane	2511	3049
1,3-Dichloropropene [1,3-Dichloropropylene]	1154	1401
Dicofol [Kelthane]	2.91	3.53
Dieldrin	1.94E-04	2.35E-04
2,4-Dimethylphenol	81774	99296
Di-*n*-Butyl Phthalate	896	1088
Dioxins/Furans [TCDD Equivalents]	7.73E-07	9.38E-07
Endrin	0.194	0.235
Epichlorohydrin	19513	23694
Ethylbenzene	18098	21976
Ethylene Glycol	1.63E+08	1.98E+08
Fluoride	N/A	N/A
Heptachlor	0.0010	0.0012
Heptachlor Epoxide	0.0028	0.0034

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Hexachlorobenzene	0.007	0.008
Hexachlorobutadiene	2.13	2.59
Hexachlorocyclohexane (*alpha*)	0.081	0.099
Hexachlorocyclohexane (*beta*)	2.52	3.06
Hexachlorocyclohexane (*gamma*) [Lindane]	3.31	4.01
Hexachlorocyclopentadiene	112	137
Hexachloroethane	22.6	27.4
Hexachlorophene	28.1	34.1
4,4'-Isopropylidenediphenol [Bisphenol A]	154920	188117
Lead	98	119
Mercury	0.242	0.294
Methoxychlor	29	35
Methyl Ethyl Ketone	9.62E+06	1.17E+07
Methyl *tert*-butyl ether [MTBE]	101606	123379
Nickel	11050	13418
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	18156	22046
N-Nitrosodiethylamine	20.4	24.7
N-Nitroso-di-*n*-Butylamine	41	49
Pentachlorobenzene	3.44	4.2
Pentachlorophenol	2.81	3.41
Polychlorinated Biphenyls [PCBs]	0.006	0.008
Pyridine	9180	11147
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.33	2.82
1,1,2,2-Tetrachloroethane	255	310
Tetrachloroethylene [Tetrachloroethylene]	2714	3296
Thallium	2.23	2.71
Toluene	N/A	N/A
Toxaphene	0.107	0.129
2,4,5-TP [Silvex]	3577	4343
1,1,1-Trichloroethane	7.60E+06	9.23E+06
1,1,2-Trichloroethane	1609	1954
Trichloroethylene [Trichloroethene]	697	846
2,4,5-Trichlorophenol	18098	21976
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	160	194

Appendix B
TDS, Chloride, and Sulfate Screening Calculations

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 9 - Discharge to an Intermittent Stream within 3 Miles of Narrow Tidal Water

Screen the Intermittent Stream

Applicant Name:	**The Dow Chemical Company**
Permit Number, Outfall:	**05463-000, 001**
Segment Number:	**2427, used Segment 1102 as indicated on Critical Conditions memo.**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	**600**	mg/L	2010 TSWQS, Appendix A
Cl CC - segment criterion - chloride	**200**	mg/L	2010 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	**100**	mg/L	2010 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	**670**	mg/L	Permit application
Cl CE - average effluent concentration - chloride	**266**	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	**23.6**	mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS}, as follows:

C_{TDS} = (TDS CC / 500 mg/L) * 2,500 mg/L

Where:	C_{TDS} = TDS concentration used to determine Csv screening value
	TDS CC = TDS criterion at the first downstream segment
	500 mg/L = the median TDS concentration in Texas streams
	2,500 mg/L = the minimum TDS screening value

C_{TDS} = 3000 mg/L

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		**Then TDS Csv**
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	If C_{TDS} is	Default Csv =
Dry except for short-term flow in immediate response to rainfall.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and wastewater, considered water in the state.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv is established, the next step is to compare the effluent TDS concentration, TDS CE, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening			Data Source
TDS CE - average effluent TDS concentration	670	mg/L	Permit application
TDS Csv - TDS screening value	**3000**	mg/L	Determined above

No control measures needed if:	670	≤	3000
Consider control measures if:	670	>	3000

No control measures needed for TDS

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl Csv, as follows:

Cl Csv = (TDS Csv /TDS CC) * Cl CC

Where:	Cl Csv = chloride screening value

	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	Cl CC - chloride criterion at the first downstream segment

Cl Csv = **1000** mg/L

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening			**Data Source**
Cl CE - average effluent chloride concentration	266	mg/L	Permit application
Cl Csv - chloride screening value	1000	mg/L	Determined above

No control measures needed if:	266	≤	1000
Consider control measures if:	266	>	1000

No control measures needed for chloride

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO4 Csv, as follows:

SO4 Csv = (TDS Csv /TDS CC) * SO4 CC

Where:	SO4 Csv = sulfate screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	SO4 CC - sulfate criterion at the first downstream segment

SO4 Csv = **500** mg/L

Once the SO4 Csv is established, the next step is to compare the effluent sulfate concentration, SO4 CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			**Data Source**
SO4 CE - average effluent sulfate concentration	23.6	mg/L	Permit application
SO4 Csv - sulfate screening value	500	mg/L	Determined above

No control measures needed if:	23.6	≤	500
Consider control measures if:	23.6	>	500

No control measures needed for sulfate

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

	Sulfate		
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Appendix C
Comparison of Technology-Based Effluent Limits and Water Quality-Based Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based) and calculated/ assessed water quality-based effluent limitations (Water Quality-Based). Effluent limitations are proposed in the table below.

Outfall	*Pollutant*	*Technology-Based*		*Water Quality-Based*		*Draft Permit*	
		Daily Avg	*Daily Max*	*Daily Avg*	*Daily Max*	*Daily Avg*	*Daily Max*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
001	Flow	-	-	-	-	Report, MGD	0.08 MGD
	Aniline	N/A	0.16	-	-	N/A	0.16
	Benzene	0.037	0.136	8.046	17.021	0.037	0.136
	Chlorobenzene	0.015	0.028	37.901	80.186	0.015	0.028
	Trichloroethene	0.021	0.054	0.996	2.106	0.021	0.054
	pH	6.0 SU (minimum)	9.0 SU (maximum)	-	-	6.0 SU, min.	9.0 SU

August 8, 2024

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

RE: Response to Notice of Deficiency dated July 31, 2024
Application for Proposed Permit No.: WQ0005463000 (EPA I.D. No. TX0146391)
Name: The Dow Chemical Company (CN600356976)
Site Name: Dow Chemical La Porte Site (RN102414232)
Type of Application: NEW

VIA EMAIL

Dear Ms. Michael:

We have received your letter dated July 31, 2024. Below are Dow's responses to your comments. TCEQ comments are shown in **BOLD** with Dow's responses in *ITALICS*.

 # 1. Item 1H, application fee on page 2 of the administrative report 1.0: The cover letter and the application indicates the application fee for $350.00 is paid via Check or money order No.: 2200702423. However, we are unable to locate this payment. Please submit payment of $350.00 to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, please email a copy of the check or any proof of payment along with the response.

Dow submitted the $350 payment on July 15, 2024 via FedEx 777393225601 (check number 2200702423). We have included a copy of the check as Attachment 1 and FedEx Proof of Delivery Email as Attachment 2 to this email.

 # 2. Thank you for submitting the proposed Industrial Wastewater Permit Application. However, the application has been submitted on an outdated form. According to TCEQ policy, outdated versions of the application forms cannot be used. Please resubmit all pages of the administrative report on the most current version of TCEQ form number TCEQ-10053 (01/08/2024).

Dow has transferred the application information from the outdated forms to the new forms for both the Administrative Report (Attachment 3) and the Technical Report (Attachment 4) as requested and attached these new versions to this email. Dow has also prepared the entire permit application packet with all attachments to the new administrative and technical report and has included it as Attachment 5 to this email.

 # 3. Item 1B, affected landowners mailing labels on page 10 of the administrative report: Thank you for the 4-sets of mailing labels. Please email the labels in Avery 5160 label format (3 columns across, 10 columns down) according to the mailing list. To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included with the list, no punctuation.

Dow has included the mailing labels in Avery 5160 label format (3 columns across, 10 columns down) as Attachment 6 to this email. Per your request, the addresses are evenly spaced so that each address prints on one label and we have removed all other information from the forms including unnecessary punctuation.

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

APPLICATION. The Dow Chemical Company, 2030 Dow Center, Midland, Texas 78674, which owns a groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005463000 (EPA I.D. No. TX0146391) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 10,000 gallons per day. The facility will be located at 550 Independence Parkway South, in the city of La Porte, in Harris County, Texas 77571. The discharge route will be from the plant site to (Pending RWA). TCEQ received this application on July 24, ~~2025~~ 2024. The permit application will be available for viewing and copying at La Porte Branch Library, Reference Desk, 600 South Broadway, La Porte, 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=-95.080277,29.710555&level=18 Further information may also be obtained from The Dow Chemical Company at the address stated above or by calling Ms. Brandi B. McCoy, Texas Regional Water Manager, at 979-238-0636.

Dow has reviewed the above language and asks that the date TCEQ received this application be corrected from July 24, 2025 to July 24, 2024. Dow understands that "RWA" is Receiving Water Assessment and that the discharge route will be updated by the TCEQ and replace the (Pending RWA) language with the actual discharge route before the NORI is issued.

 # 5. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to

this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Dow is providing the translated Spanish language NORI in Microsoft Word format as Attachment 7 to this email which includes the above-mentioned changes to the NORI and the (Pending RWA) was left in this version as well for updating once the actual discharge route is received from TCEQ assessment team. Dow can provided a revised Spanish NORI once this is communicated.

Thank you for your continued help in processing the above referenced New Permit application. Please feel free to contact me at 979-238-0636 or by email at bbmccoy@dow.com.

Sincerely,

Brandi B. McCoy

Brandi McCoy
Texas Regional Water Manager
The Dow Chemical Company

Attachments:

Attachment 1. Proof of Payment (Dow Check)
Attachment 2. FedEx Proof of Delivery (payment)
Attachment 3. Administrative Report form – updated signed version
Attachment 4. Technical Report form - updated signed version
Attachment 5. Entire Permit Application - updated signed version
Attachment 6. Landowner Mailing Labels
Attachment 7. Spanish NORI in Microsoft Word format – DRAFT Pending RWA

Table of Contents

Industrial Administrative Report 1.0	Admin Report
Industrial Technical Report 1.0	Tech Report
TCEQ Plain Language Summary Form	AR 1.0-9.f
TCEQ Public Involvement Plan Form	AR 1.0-9.g
TCEQ Core Data Form	AR 1.0-4.a
USGS Topographic Map	AR 1.0-11.b
Adjacent Properties Downstream of Outfalls Map	AR 1.1-1.a
Adjacent Landowner Mailing Labels and Cross-Reference List	AR 1.1-1.c
Photographs of Outfalls and Outfall Photo Location Map	AR 1.1-2
TCEQ Supplemental Permit Information Form	AR SPIF
Permit Application Narrative Discussion	TR 1.0-1.a
Facility Map	TR 1.0-1.d
Water Balance Diagram	TR 1.0-2.b
Contract Laboratory Information	TR WK2-1.c
Worksheet 2.0 Data Tables	TR WK2-3.2

INDUSTRIAL 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: The Dow Chemical Company (Dow)

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

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

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

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

Applicant Name: The Dow Chemical Company (Dow)

Permit No.: WQ000Click to enter text.

EPA ID No.: TXD000017756

Expiration Date: N/A

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☐ Active ☒ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☒ New

☐ Renewal with changes ☐ Renewal without changes

☐ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Click to enter text.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

g. Application Fee

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

h. Payment Information

Mailed

Check or money order No.: 2200702423

Check or money order amt.: $350.00

Named printed on check or money order: Texas Commission on Environmental Quality

Epay

Voucher number: N/A

Copy of voucher attachment: N/A

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600356976

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: The Dow Chemical Company

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: Ms. Full Name (Last/First Name): Sharon Hulgan

Title: Operations Director Credential: Click to enter text.

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: AR 1.0-4.a

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.com

b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Gary Moore

Title: EH&S Delivery Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 550 Independence Parkway South City/State/Zip: La Porte, TX 77571

Phone No: 713.301.4407 Email: gmoore3@dow.com

Attachment: Click to enter text.

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

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

a. Prefix: Mr. Full Name (Last/First Name): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.com

b. Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.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): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.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): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.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: bbmccoy@dow.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 332 SH 332 East

City/State/Zip Code: Lake Jackson, TX 77566

c. Contact in the Notice

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Phone No: 979.238.0636 Email: bbmccoy@dow.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: Harris County Public Library; La Porte Branch Library Location within the building: Reference

Physical Address of Building: 600 South Broadway St., La Porte, TX 77571

City: La Porte 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. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: AR 1.0-9.f

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: AR 1.0-9.g

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN102414232

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): The Dow Chemical Company, La Porte Site

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

☐ Yes ☐ No ☒ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685 City/State/Zip: La Porte, TX 77572

Phone No: (281) 228-2238 Email: Click to enter text.

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

f. Owner of land where treatment facility is or will be: Click to enter text.

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

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685 City/State/Zip: La Porte, TX 77572

Phone No: (281) 228-2238 Email: Click to enter text.

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

☐ Yes ☒ No

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

☒ One-mile radius

☒ Applicant's property boundaries

☒ Labeled point(s) of discharge

☐ Effluent disposal site boundaries

☐ Sewage sludge disposal site

☒ Three-miles downstream information

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☐ All wastewater ponds

☐ New and future construction

Attachment: AR 1.0-11.b

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: Proposed Outfall 001 will be approximately located at coordinates 29042'35"N, 95004'35"W

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

☐ Yes ☒ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: The discharge route will be from the plant site to (new proposed) Outfall 001 to an unnamed ditch, thence to a tidal ditch, thence to San Jacinto Bay. See Attachment TR 1.0-1.a, Section 3 for additional information.

f. City nearest the outfall(s): La Porte

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

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: Authorized ORS discharges already occurring under current LPO TPDES permit WQ0000663000 through existing Outfall 001.

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

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

☐ Yes No or New Permit ☐

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: Laura Dickson

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ000Click to enter text.

Applicant Name: The Dow Chemical Company

Certification: I, Sharon Hulgan, 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): Sharon Hulgan

Signatory title: Operations Director

Signature: Sharon D Hulgan (Use blue ink) Date: August 7, 2024

Subscribed and Sworn to before me by the said _____

on this 7th day of August, 2024.

My commission expires on the 27th day of October, 2027.

Carla M. Perez
Notary Public

Harris
County, Texas

(SEAL)

CARLA M. PEREZ
Notary Public, State of Texas
Comm. Expires 10-27-2027
Notary ID 124995461

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☒ The applicant's property boundaries.

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

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

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

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

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

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

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

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

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

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

Attachment: AR 1.1-1.a

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

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: AR 1.1-1.c

d. Provide the source of the landowners' names and mailing addresses: Harris County

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

☐ Yes ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: AR 1.1-2

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: AR SPIF

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ000Click to enter text.

1. Check or Money Order Number: 2200702423
2. Check or Money Order Amount: $350.00
3. Date of Check or Money Order: July 3, 2024
4. Name on Check or Money Order: Texas Commission on Environmental Quality
5. APPLICATION INFORMATION

   Name of Project or Site: The Dow Chemical Company, La Porte Site, ORS System

   Physical Address of Project or Site: 550 Independence Parkway South, LaPorte, Texas 77571

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

☒ Plain Language Summary

INDUSTRIAL 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).

See Attachment TR 1.0-1.a, Section 1 (Site Background and Description of Business Activities) for a description of the general nature of the business and type(s) of industrial and commercial activities.

Additional permit application narrative sections of Attachment TR 1.0-1.a include:

Section 2 - Proposed Site Activities

Section 3 – Proposed Outfall Description

Section 4 - Permit Application Sampling

Section 5 – Proposed Outfall 001 Permit Provisions

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

See Attachment TR 1.0-1.a, Section 2

[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
None	None	None

Attachment: N/A

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

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

Attachment: TR 1.0-1.d

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA Flood Study – Harris County

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: Click to enter text.

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

☐ Yes ☒ No ☐ N/A (renewal only)

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

☐ Yes ☐ No

If **yes**, provide the permit number: Click to enter text.

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

Item 2. Treatment System (Instructions, Page 40)

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

See Attachment TR 1.0-1.a, Section 2.1

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: TR 1.0-2.b

Item 3. Impoundments (Instructions, Page 40)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

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

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

Impoundment Information

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

Attachment: Click to enter text.

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

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

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29°42'35''	95°04'35''

Outfall Location Description

Outfall No.	Location Description
001	Immediately adjacent to the location of current Outfall 001 (TPDES permit WQ0000663000) where the outlet pipe for final discharge of the wastewater treatment plant enters the un-named ditch; thence to San Jacinto Bay in Segment 2427 of the Bays and Estuaries.

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

Outfall No.	Description of sampling point
001	At the outlet pipe for final discharge of the ORS treatment unit enters the un-named ditch.

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	N/A	N/A	0.01	0.08	TBD

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Orifice 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)
001	Y	N	N	Variable	Variable	12

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Groundwater Organics Removal System	0.08	100

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

Attachment: Click to enter text.

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

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

Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☒ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: 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.
N/A	

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

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

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: N/A

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

☐ Yes ☒ No

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

Attachment: N/A

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

☐ Yes ☒ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

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

c. Cooling Water Supplier

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

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

CWIS ID				
Owner				
Operator				

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

d. 316(b) General Criteria

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

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

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

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

   ☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

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

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

☐ Track I – AIF greater than 10 MGD

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

☐ Track II

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility

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

☐ Track I – Not a fixed facility

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

☐ Track II – Fixed facility

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

Attachment: Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

CERTIFICATION:

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

Printed Name: Sharon Hulgan

Title: Operations Director

Signature: Sharon D Hulgan

Date: August 7, 2024

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

Item 1. Categorical Industries (Instructions, Page 53)

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

☐ Yes ☒ No

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

40 CFR Effluent Guideline

Industry	40 CFR Part
N/A	

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

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

a. Production Data

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

Production Data

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

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			

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

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

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

See Attachment TR 1.0-2.b

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
N/A			

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): 5/7/24 – 5/28/24

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

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** TR WK2-1.c

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:** N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

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

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.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

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

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
[Trichloroethylene]					
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

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

a. **Tributyltin**

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

☐ Yes ☒ No

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

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

Table 4 for Outfall No.: N/A **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.

☒ N/A

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

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

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)**
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.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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

* Indicate units if different from µg/L.

Table 10 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

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

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

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

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

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text.

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

☐ Yes ☒ No

Description: Click to enter text.

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

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

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

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

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

Table 13 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one):** ☐ **Composite** ☐ **Grab**

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

Item 3. Classified Segment (Instructions, Page 80)

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

☐ Yes ☒ No

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

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

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

a. Name of the immediate receiving waters: Unnamed

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

☐ Lake or Pond

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

☒ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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

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

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

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

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

☐ Perennial (normally flowing)

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

☐ USGS flow records

☒ personal observation

☒ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: San Jacinto Bay in Segment 2427

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: From unnamed ditch to tidal ditch then to San Jacinto Bay of Segment 2427 of the Bays and Estuaries.

f. General observations of the water body during normal dry weather conditions: Unnamed ditch – clear with slight brown tint.

Date and time of observation: March 6, 2024; 4:37 PM.

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

☐ Yes ☒ No

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

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

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

☐ oil field activities
☐ agricultural runoff
☒ upstream discharges
☒ urban runoff
☐ septic tanks
☒ other, specify: Industrial and commercial activities

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: None

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

ADMINISTRATIVE REPORT
ATTACHMENTS

AR 1.0-9.f

(TCEQ Plain Language Summary Form)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

The Dow Chemical Company (Dow) (CN600356976), operates the Dow La Porte site (RN102414232) groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility. The site is located at 550 Independence Parkway South, in La Porte, Harris County, Texas 77571. The Dow Chemical Company, La Porte Site, formerly manufactured specialty chemicals. Dow ceased chemical manufacturing operations at the La Porte site in 2023. This application requests an individual TPDES discharge permit for coverage of discharge from the existing groundwater recovery and treatment system owned and operated by Dow. Discharges from the groundwater recovery and treatment system are currently permitted under the Dow La Porte site current TPDES permit number WQ0000663000. The existing TPDES will be transferred or terminated in conjunction with issuance of the new TPDES permit. Dow proposes that new discharge point associated with this new permit be identified as Outfall 001 (proposed). The discharge from proposed Outfall 001 will be treated groundwater from the Dow groundwater ORS.

Discharges from proposed Outfall 001 are proposed to be monitored for pH, aniline, benzene, chlorobenzene and trichloroethene. Discharge frequency and rate requested for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day. Specific testing requirements were completed as part of this renewal application and are included in the Industrial Wastewater Application Technical report, Worksheet 2.0. Groundwater from the recovery system will be treated for organics removal through the groundwater treatment unit using a carbon filtration system before being discharged to proposed Outfall 001.

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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/AGUAS PLUVIALES**

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

Dow Chemical Company (Dow) (CN600356976), opera el sistema de eliminación orgánica de aguas subterráneas (ORS, por sus siglas en inglés) del sitio Dow La Porte (RN102414232) en una antigua instalación de fabricación de productos químicos industriales. El sitio está ubicado en la 550 Independence Parkway South, La Porte, Harris County, Texas 77571. Dow Chemical Company, sitio de La Porte, anteriormente fabricaba productos químicos especiales. Dow cesó las operaciones de fabricación de productos químicos en el sitio de La Porte en 2023. Esta aplicación solicita un permiso de descarga TPDES individual para cubrir la descarga del sistema existente de recuperación y tratamiento de aguas subterráneas propiedad de Dow y operado por ella. Las descargas del sistema de recuperación y tratamiento de aguas subterráneas están actualmente permitidas según el permiso TPDES actual del sitio de Dow La Porte número WQ0000663000. El TPDES existente se transferirá o cancelará junto con la emisión del nuevo permiso TPDES. Dow propone que el nuevo punto de descarga asociado con este nuevo permiso se identifique como Desagüe 001 (propuesto). La descarga del Desagüe 001 propuesto será agua subterránea tratada del ORS de agua subterránea de Dow.

Se propone monitorear el pH, anilina, benceno, clorobenceno y tricloroeteno de las descargas del Desagüe 001 propuesto. La frecuencia y tasa de descarga solicitadas para el Desagüe Propuesto 001 serán intermitentes (por lotes) y variables, y no excederán la capacidad máxima de diseño del sistema de recuperación de 80,000 galones por día. Se completaron requisitos de prueba específicos como parte de esta solicitud de renovación y se incluyen en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. El agua subterránea del sistema de recuperación será tratada para eliminar la materia orgánica a través de la unidad de tratamiento de agua subterránea utilizando un sistema de filtración de carbón antes de descargarse al Desagüe 001 propuesto.

AR 1.0-9.g

(TCEQ Public Involvement Plan Form)

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.

The source of industrial wastewater to be authorized by the LPO new TPDES permit is currently authorized under LPO TPDES permit number WQ0000663000. The current permit was not considered to have significant public interest; therefore, the new permit application is not expected to either.

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)

AR 1.0-4.a

(TCEQ Core Data Form)

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600356976		**RN 102414232**

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:*

The Dow Chemical Company

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0001216206	13812851288	381285128	08-497-05

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:

2030 Dow Center

City	Midland	**State**	MI	**ZIP**	48674	**ZIP + 4**	

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

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

(281) 228-2238		(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.)*

Dow Chemical La Porte Site

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	550 Independence Parkway South							
	City	La Porte	**State**	TX	**ZIP**	77571	**ZIP + 4**	9768
24. County	Harris							

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

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

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	42	38	95	04	49

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)
		562910	

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

Groundwater Remediation

34. Mailing Address:	**Attention: Ms. Brandi McCoy**							
	P.O Box 685							
	City	**La Porte**	**State**	**TX**	**ZIP**	**77572**	**ZIP + 4**	
35. E-Mail Address:	**fhubehs@dow.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 228-2238		**(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
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	Permit No. To Be Determined			

SECTION IV: Preparer Information

40. Name:	Brandi B. McCoy	41. Title:	Texas Regional Water Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(979) 238-0636		(979) 235-8117	bbmccoy@dow.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:	The Dow Chemical Company	Job Title:	Operations Manager	
Name *(In Print)*:	Sharon Hulgan		Phone:	(281) 228- 2238
Signature:	Sharon D Hulgan		Date:	August 7, 2024

AR 1.0-11.b

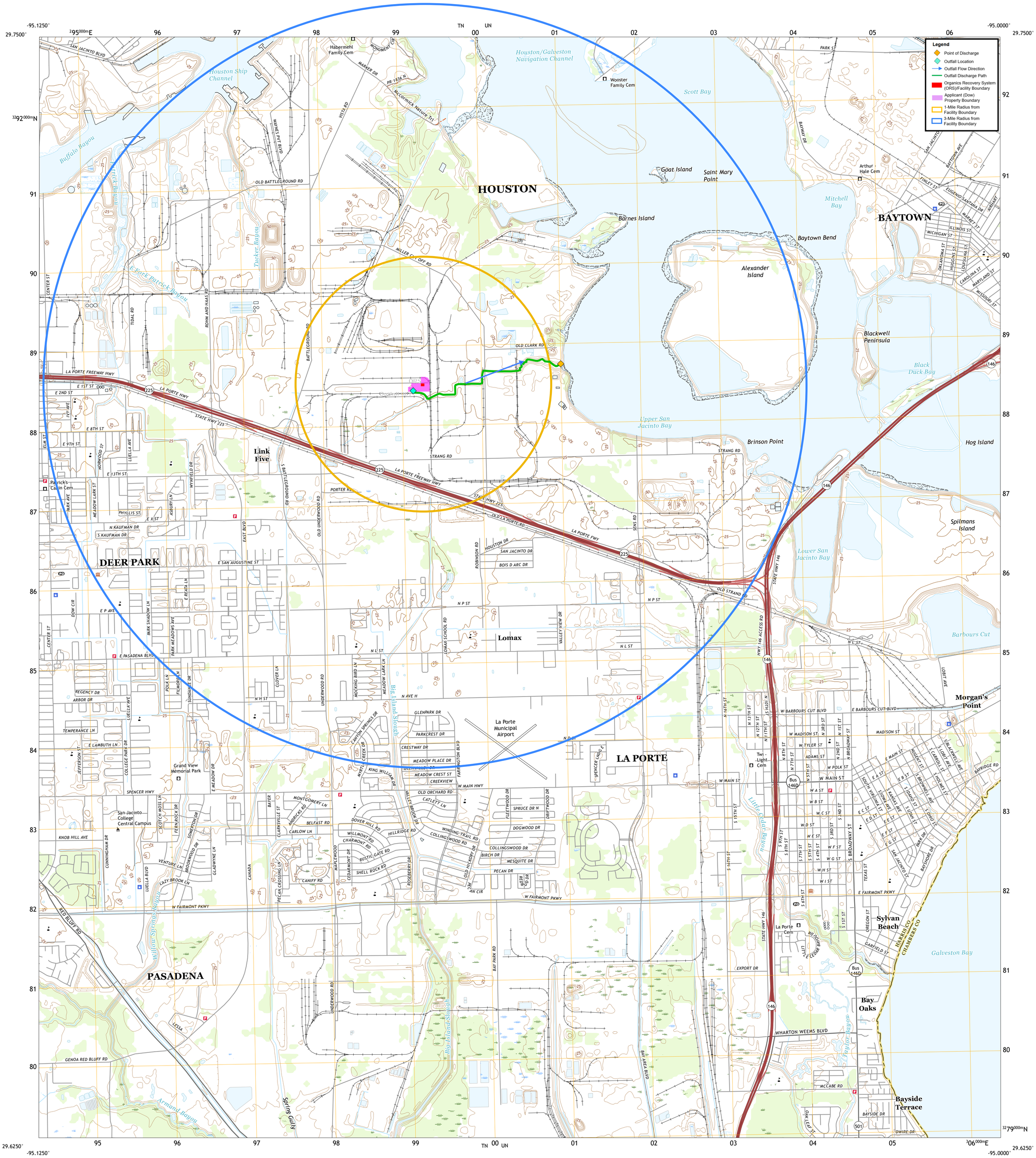
(USGS Topographic Map)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

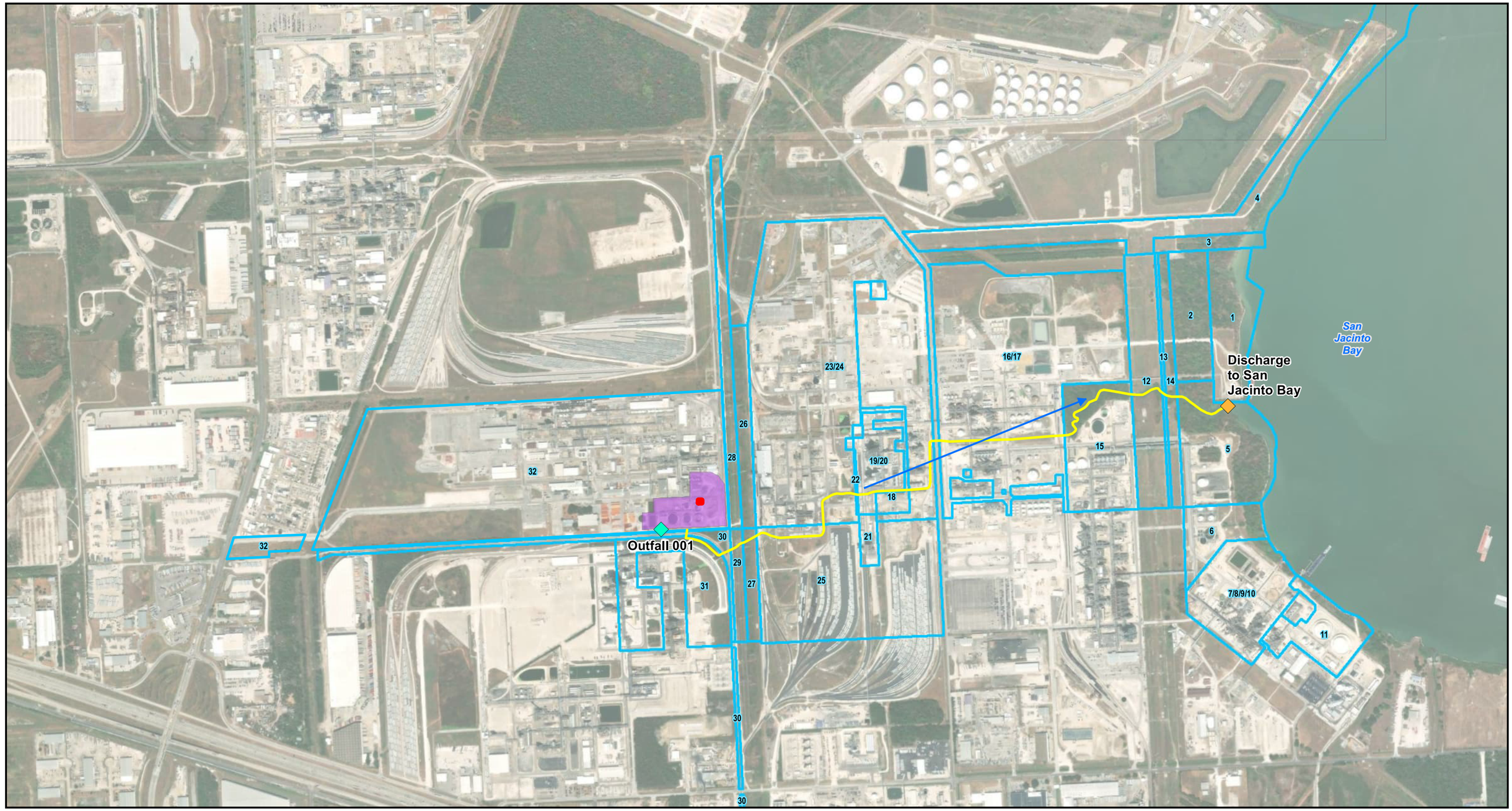
The National Map US Topo

LA PORTE QUADRANGLE
TEXAS
7.5-MINUTE SERIES


-95.1250°
-95.0000°
29.7500°
29.6250°
295000mE
306000mE
3292000mN
3279000mN
TN UN
Legend
Point of Discharge
Outfall Location
Outfall Flow Direction
Outfall Discharge Path
Organics Recovery System (ORS)/Facility Boundary
Applicant (Dow) Property Boundary
1-Mile Radius from Facility Boundary
3-Mile Radius from Facility Boundary
HOUSTON
DEER PARK
PASADENA
BAYTOWN
LA PORTE
Lomax
Link Five
Houston Ship Channel
Houston/Galveston Navigation Channel
Scott Bay
Mitchell Bay
Upper San Jacinto Bay
Lower San Jacinto Bay
Galveston Bay
Barbours Cut
Goat Island
Saint Mary Point
Barnes Island
Baytown Bend
Alexander Island
Blackwell Peninsula
Black Duck Bay
Brinson Point
Hog Island
Spilmans Island
Morgan's Point
Sylvan Beach
Bay Oaks
Bayside Terrace
La Porte Municipal Airport
Habermehl Family Cem
Wooster Family Cem
Arthur Hale Cem
Patrick's Cabin Cem
Grand View Memorial Park
San Jacinto College Central Campus
Twi-Light Cem
La Porte Cem
Buffalo Bayou
Tucker Bayou
E Fork Patrick Bayou
Big Island Slough
Little Cedar Bayou
Taylor Bayou
Willow Springs Bayou
Armand Bayou
Spring Gully
SAN JACINTO BLVD
LA PORTE FREEWAY HWY
LA PORTE HWY
STATE HWY 225
OLD BATTLEGROUND RD
MILLER CUT OFF RD
OLD CLARK RD
STRANG RD
OLD LA PORTE RD
LA PORTE FWY
SPENCER HWY
W MAIN HWY
W FAIRMONT PKWY
E FAIRMONT PKWY
WHARTON WEEMS BLVD
RED BLUFF RD
GENOA RED BLUFF RD
MCCABE RD
BAYSIDE DR
EXPORT DR
OLD STRAND RD
E BARBOURS CUT BLVD
W BARBOURS CUT BLVD
MADISON ST
W MAIN ST
E MAIN ST
PARK ST
BAYWAY DR
BAYTOWN AVE
FINLEY ST
EUGENIO SANTANA DR
MARKET ST
ILLINOIS ST
MICHIGAN ST
OKLAHOMA ST
HIGGINS ST
LOUISIANA ST
CAROLINA ST
MARYLAND ST
MISSOURI ST
BAYRIDGE RD
LOBIT AVE
HWY 146 ACCESS RD
STATE HWY 146
OLD UNDERWOOD RD
UNDERWOOD RD
BAY PARK RD
BAY AREA BLVD
ROBINSON RD
LOMAX SCHOOL RD
VALLEY VIEW DR
SENS RD
HOUSTON DR
SAN JACINTO DR
BOIS D ARC DR
BATTLEGROUND RD
S BATTLEGROUND RD
EAST BLVD
WAYNES PVT BLVD
VISTA RD
MARKER DR
MONUMENT CIR
PR 1836 N
McCormick Nature Trl
ROHM AND HAAS RD
CENTER ST
TIDAL RD
LA PORTE
Bus 146D
Bus 146D
Bus 146D

AR 1.1-1.a

(Adjacent Properties Downstream of Outfalls Map)



Legend

- Point of Discharge
- Outfall Location
- Outfall Flow Direction
- Outfall Discharge Path
- Facility Boundary
- Applicant (Dow) Property Boundary
- Adjacent Properties

N

0 1,000 2,000

Feet



Attachment AR1.1-1.a

Adjacent Properties Downstream of Outfalls

The Dow Chemical Company

LaPorte Site

Imagery Date: 9/1/2023

Drawing Date: 4/26/2024

Drawn By: Jacobs

\\DC1VS01\GISPROJ\D\DOWCHEMICALS\LAPORTE\MAPFILES\2023\ADJPROP_WTPFAC.MXD GTWIGG 4/26/2024 1:32:05 PM

AR 1.1-1.c

(Adjacent Landowner Mailing Labels and Cross-Reference List)

Attachment AR 1.1-1.c
Adjacent Landowner Cross-Reference List
Dow Chemical - La Porte Site
TPDES Permit Number WQ000-NEW

Map ID (Reference Attachment AR 1.1-1.a)	OWNER NAME	OWNER ADDRESS
31	BRASKEM AMERICA INC	% TAX DEPT, 1735 MARKET ST, STE LL, PHILADELPHIA, PA 19103-7528
26, 27, 28, 29	CENTERPOINT ENERGY HOU ELE	PROPERTY TAX DEPT, 38TH FLR, PO BOX 1475, HOUSTON, TX 77251-1475
14	COASTAL INDUSTRIAL WATER	1200 SMITH ST, STE 2260, HOUSTON, TX 77002-4500
18, 19, 22, 24, 25	EQUISTAR CHEMICALS LP	% PROPERTY TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
12	EXXON PIPELINE 00610	PO BOX 53, HOUSTON, TX 77001-0053
4	EXXON PIPELINE 00650	PO BOX 53, HOUSTON, TX 77001-0053
13	EXXON PIPELINE 00705	PO BOX 53, HOUSTON, TX 77001-0053
11, 16	LA PORTE METHANOL CO LP	PO BOX 3646, HOUSTON, TX 77253-3646
7	LINDE GAS INC	10 RIVERVIEW DR, DANBURY, CT 06810-6268
8	LINDE GAS INC	575 MOUNTAIN AVE, NEW PROVIDENCE, NJ 07974-2097
32	LUBRIZOL ADVANCED MATERIALS INC	600 INDEPENDENCE PKWY, LA PORTE, TX 77571
20, 21	LYB LA PORTE HYPERZONE LLC	% REAL ESTATE COUNSEL LYONDELL BASELL, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
9	LYONDELL BASELL ACETYLS LLC	% LYONDELL CHEMICAL CO, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
2, 10, 17, 23	LYONDELLBASELL ACETYLS LLC	ATTN TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
5, 6, 15	OLEFINS JV LP	1221 MCKINNEY ST, HOUSTON, TX 77010-2011
3	OXY VINYLS LP	C/O TAX DEPT, PO BOX 27570, HOUSTON, TX 77227-7570
1	PORT OF HOUSTON AUTHORITY	111 EAST LOOP N, HOUSTON, TX 77029-4326
30	SOUTHERN PACIFIC RAILROAD COMPANY	UNION PACIFIC RAILROAD CO, 1400 DOUGLAS ST, STOP 1640, OMAHA, NE 68179-1001

BRASKEM AMERICA INC
TAX DEPT
1735 MARKET ST STE LL
PHILADELPHIA PA 19103-7528

CENTERPOINT ENERGY HOU ELE
PROPERTY TAX DEPT 38TH FLR
PO BOX 1475
HOUSTON TX 77251-1475

COASTAL INDUSTRIAL WATER
1200 SMITH ST STE 2260
HOUSTON TX 77002-4500

EQUISTAR CHEMICALS LP
PROPERTY TAX DEPT
PO BOX 3646
HOUSTON TX 77253-3646

EXXON PIPELINE 00610
PO BOX 53
HOUSTON TX 77001-0053

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PO BOX 53
HOUSTON TX 77001-0053

EXXON PIPELINE 00705
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HOUSTON TX 77253-3646

LINDE GAS INC
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NEW PROVIDENCE NJ 07974-2097

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600 INDEPENDENCE PKWY
LA PORTE TX 77571

LYB LA PORTE HYPERZONE LLC
REAL ESTATE COUNSEL LYONDELL BASELL
1221 MCKINNEY STE 300
HOUSTON TX 77010-2036

LYONDELL BASELL ACETYLS LLC
LYONDELL CHEMICAL CO
1221 MCKINNEY ST STE 300
HOUSTON TX 77010-2036

LYONDELLBASELL ACETYLS LLC
ATTN TAX DEPT
PO BOX 3646
HOUSTON TX 77253-3646

OLEFINS JV LP
1221 MCKINNEY ST
HOUSTON TX 77010-2011

OXY VINYLS LP
CO TAX DEPT
PO BOX 27570
HOUSTON TX 77227-7570

PORT OF HOUSTON AUTHORITY
111 EAST LOOP N
HOUSTON TX 77029-4326

SOUTHERN PACIFIC RAILROAD COMPANY
UNION PACIFIC RAILROAD CO
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001

AR 1.1-2

(Photographs of Outfalls and

Outfall Photo Location Map)

Attachment AR 1.1-2
Photographs of Outfalls

Future Outfall 001 Picture 001-01

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing east.

Attachment AR 1.1-2
Photographs of Outfalls

Future Outfall 001 Picture 001-02

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing west, away from future Outfall 001.

AR SPIF

(TCEQ Supplemental Permit Information Form)

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: The Dow Chemical Company

   Permit No. WQ00 Click here to enter text EPA ID No. TXD000017756

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

   550 Independence Parkway South, La Porte, Texas 77571

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: Donnie Belote

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

Title: Dow Remediation Leader

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

City, State, Zip Code: Freeport, TX 77541

Phone No.: 979-238-5568 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: DBelote@dow.com

2. List the county in which the facility is located: Harris
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.

Unnamed ditch to tidal ditch to San Jacinto Bay Segment 2427.

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. N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

   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

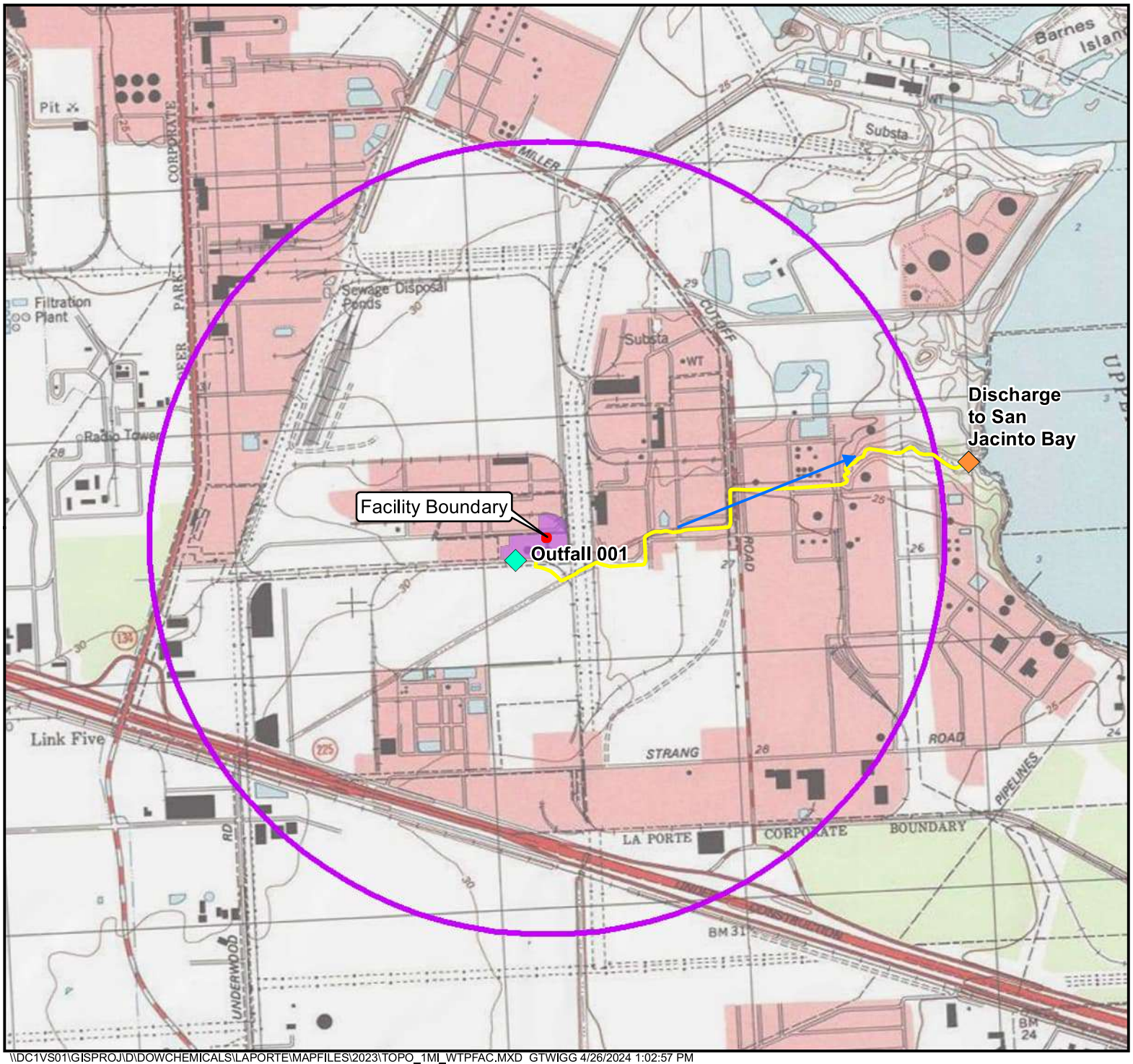
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

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

The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division. In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes business, (both located on the LPO site) to Illinois Tool Works, Inc. (now Johns Manville), and Lubrizol Corporation, respectively, and leased these portions of the site to Illinois Tool Works, Inc. and Lubrizol. On December 30, 2019, Dow sold the majority of the land and above-ground assets, such as the boiler and the cooling tower, to Lubrizol Corporation, but Dow continues to operate these assets through the end of 2024. Dow will retain ownership and operation of the groundwater organics recovery system (ORS) and the remediation ownership of groundwater liabilities. Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun and is expected to be complete by the end of 2025. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be limited to discharge from the groundwater ORS. The ORS currently discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. However, Dow has prepared this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001, and will terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000 after termination of wastewater services.



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TECHNICAL REPORT
ATTACHMENTS

TR 1.0-1.a

(Permit Application Narrative Discussion)

ATTACHMENT

TR 1.0-1.a

DOW CONFIDENTIAL- DO NOT SHARE WITHOUT PERMISSION

The Dow Chemical Company (Dow) has prepared this Texas Pollutant Discharge Elimination System (TPDES) new permit application for its existing groundwater recovery and treatment system at the La Porte Operations (LPO) site in La Porte, Harris County, Texas.

1. Site Background and Description of Business Activities

The LPO site has historically functioned as manufacturer of specialty chemicals (primary SIC code 2869). While Dow has ceased manufacturing operations at the site, historically the basic products manufactured by Dow included monomeric methylene diphenyldiisocyante and related pre-polymers

The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division.

In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes (TPU) business, (both located on the LPO site) to Illinois Tool Works, Inc. (ITW) (now Johns Manville), and Lubrizol Corporation (Lubrizol), respectively, and leased these portions of the site to ITW and Lubrizol. Specifically, Dow and ITW entered into a Ground and Building Lease on July 9, 2008, and Dow and Lubrizol entered into a Ground Lease Agreement on December 13, 2008. Additionally, Asset Purchase Agreements were executed by and between Dow and ITW on July 9, 2008, and Dow and Lubrizol on December 14, 2008.

On December 30, 2019, Dow sold the majority of the land and above-ground assets, including the boiler and cooling tower, to Lubrizol, but Dow continues to operate these assets through the end of 2024, at which time Dow will turn over operation of these assets (along with other site services like nitrogen, air, and natural gas). Dow also retained ownership and operation of the wastewater treatment plant (WWTP). Dow will provide wastewater services to Johns Manville and Lubrizol until the end of its contractual obligation at the end 2024. At that time, Dow will cease operation of its site wastewater treatment plant (WWTP) and decommission it after all LPO site Notice of Registration (NOR) closures are complete.

Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun, with an expected completion by the end of 2025. Dow will maintain ownership and operation of the groundwater organics recovery system (ORS) at the LPO site and remediation ownership of ORS-associated groundwater liabilities. This new TPDES individual permit application is for continued TPDES coverage of treated groundwater discharges from the ORS (North American Industrial System Classification [NAICS] code 562910). There will be no other sources of discharge.

2. Proposed Site Activities

By the end of 2024, Dow will have ceased all manufacturing operations and operation of its WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be

limited to discharge from the groundwater ORS. Currently, the ORS system discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. The current TPDES allows the ORS effluent to be discharged directly to current Outfall 001 with no additional treatment.

In a February 23, 2024, email correspondence with the Texas Commission on Environmental Quality, Dow proposed to prepare this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001 and terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000. This approach allows Dow to have a clean separation from Lubrizol after Dow exits industrial operations at the site. Dow notes the two permits could possibly overlap. TCEQ responded "If there does end up being an overlap (i.e., the existing permit it still active and in DOWs name when your new permit is issued), as long as there is no dual coverage (i.e., the same outfall being permitted by both authorizations), we see no issue with this path forward."

2.1 Groundwater ORS Operation Summary

The LPO groundwater remediation program is established in the LPO Resources Conservation and Recovery Act (RCRA) Hazardous Waste Permit No. 50253 (RCRA permit). Dow is required to recover subsurface ground water at various locations throughout the site in multiple groundwater zones (sand layers below surface). Groundwater is pumped from a network of recovery wells and a recovery trench to skid units before being sent to a holding tank. Groundwater is then pumped from the holding tank to the ORS treatment unit for organics removal using a carbon filtration system, before being discharged to proposed Outfall 001. Groundwater indicator parameters monitored in the Corrective Action Program, Table IIIA of the LPO RCRA permit include aniline, benzene, chlorobenzene and trichloroethene.

In accordance with Section XI.F.3.b and CP Table VII of the RCRA permit, groundwater monitoring occurs semiannually.

3. Proposed Outfall Description

Proposed Outfall 001 future discharges are described below. The discharge source for the outfall is described in Table 1.

Proposed Outfall 001

Proposed Outfall 001 will have a new outfall location (Latitude: 29 42' 35", Longitude: 95 04'35") but will follow the same discharge route as the current Outfall 001 to the receiving water, to include discharge to an unnamed ditch, thence to tidal ditch, thence to San Jacinto Bay of Segment 2427 of the Bays and Estuaries, which is approximately 1.2 miles from the discharge point for Outfall 001. Discharges from proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the ORS design maximum treatment capacity of 80,000 gallons per day.

Table 1. Outfall Description as Proposed

LPO Facility 2024 New TPDES Permit Application

Outfall	Description of Sources
001 (Proposed)	Intermittent (batch) and variable discharge of treated groundwater

4. Permit Application Sampling

Application sampling was conducted in accordance with TPDES Technical Report 1.0, Worksheet 2.0 for Proposed Outfall 001 and are representative of current ORS discharges.

Analytical results of required sampling for Proposed Outfall 001 are presented in Attachment TR WK2.0-3.2. Samples were analyzed using the minimum analytical limits (MALs) required in Technical Report 1.0.

Attachment TR WK2-2.c provides information on the laboratories used for analyzing data for completing this TPDES permit application.

5. Proposed Outfall 001 Permit Provisions

This section describes the proposed permit provisions for Proposed Outfall 001. Proposed Outfall 001 discharge will be intermittent (batch) comprised treated groundwater from the ORS.

Monitoring Frequency

In accordance with the LPO RCRA corrective action program, groundwater monitoring occurs semiannually. Dow proposes semi-annual monitoring for the proposed permit parameters in the TPDES permit to coincide with the semi-annual groundwater monitoring schedule.

Flow Monitoring

Flow will be continuously measured at Proposed Outfall 001, when discharging, using a flow meter. Discharge frequency and rate for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day.

pH

Monitoring of pH is proposed, as a grab sample at Proposed Outfall 001 with a minimum limit of 6.0 standard units (SU) and a maximum limit of 9.0 standard units (SU).

Indicator Parameters

Effluent monitoring for groundwater indicator parameters currently monitored in the Corrective Action Program of the LPO RCRA permit is proposed at Proposed Outfall 001. The proposed indicator parameters, along with proposed effluent limits are presented in the table below:

Parameter	Proposed BPJ Effluent Limit - Monthly Average (µg/L)	Proposed BPJ Effluent Limit - Daily Maximum (µg/L)
Aniline	N/A	160
Benzene	37	136
Chlorobenzene	15	28
Trichloroethene	21	54

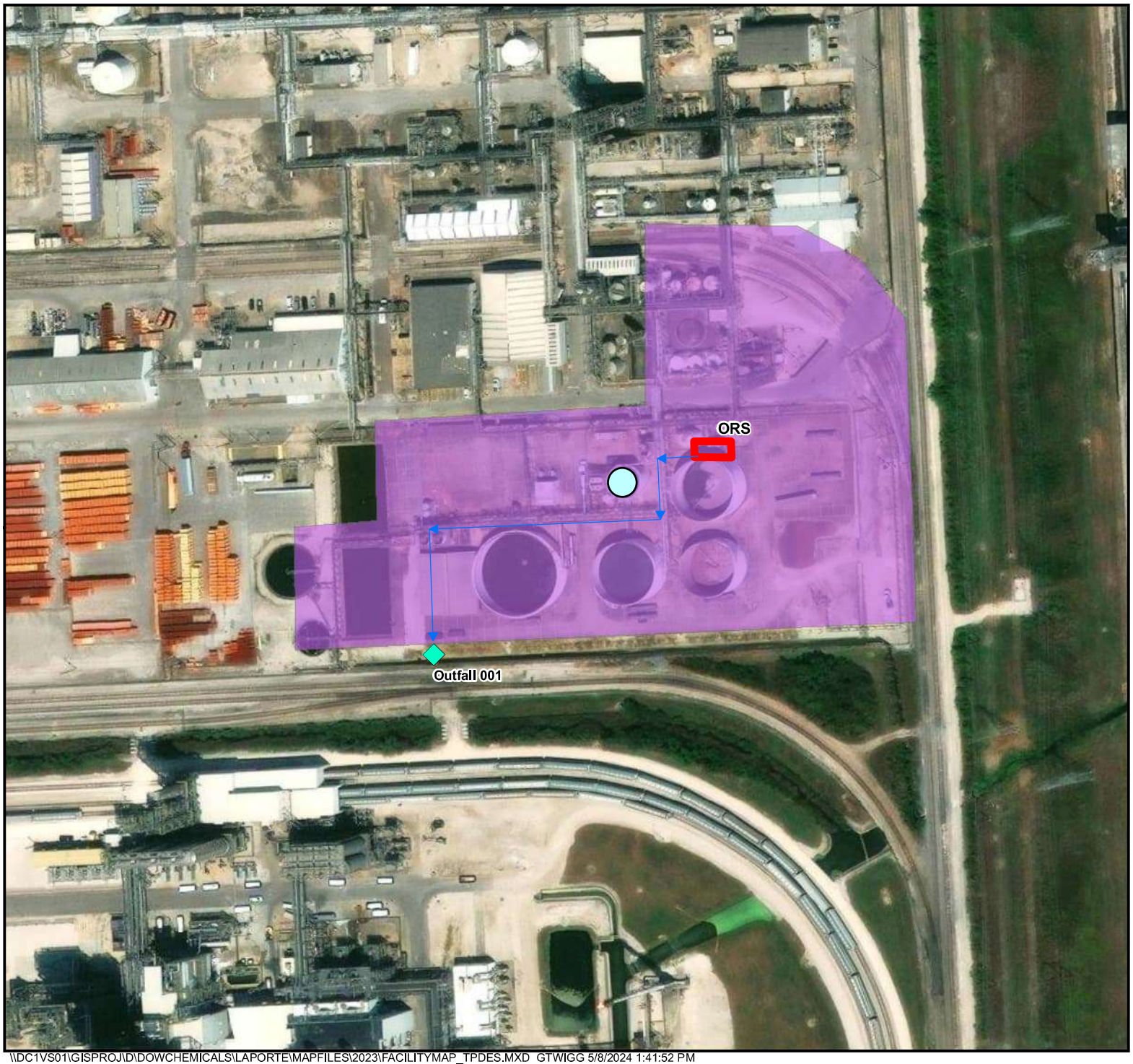
Dow is proposing Best Professional Judgement (BPJ) effluent limits for benzene, chlorobenzene and trichloroethene from as presented in the Fact Sheet from the current LPO TPDES permit No. WQ0000663000. Proposed aniline BPJ effluent limits use Texas Risk Reduction Program (TRRP) Tier 1 protective concentration levels (PCL) Class 3 residential groundwater PCL.

Summary of Outfall 001 Proposed Permit Provisions

Parameter	Proposed Effluent Limit - Monthly Average (µg/L)	Proposed Effluent Limit - Daily Maximum (µg/L)	Proposed Monitoring Frequency
Flow	N/A	N/A	1/6 months
pH	6.0 s.u.(min)	9.0 s.u. (max)	1/6 months
Aniline	N/A	160	1/6 months
Benzene	37	136	1/6 months
Chlorobenzene	15	28	1/6 months
Trichloroethene	21	54	1/6 months

TR 1.0-1.d

(Facility Map)





Legend

- Outfall Location
- Groundwater Holding Tank
- Discharge Route
- Organics Recovery System (ORS)/Carbon Filtration Unit
- Applicant (Dow) Property Boundary

0 100 200
Feet

Imagery Source:
ESRI World Imagery online mapping service, 9/1/2023

Attachment TR 1.0-1.d
Facility Map

The Dow Chemical Company
La Porte Site

N

DOW®

Drawing Date: 5/8/2024

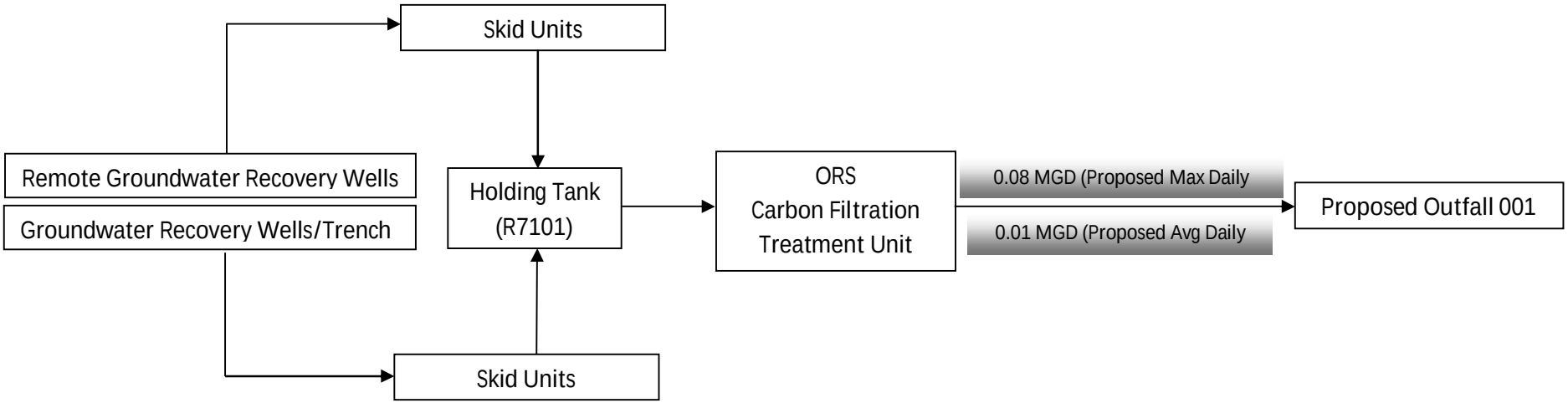
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TR 1.0-2.b

(Water Balance Diagram)

ATTACHMENT TR 2.0-b
Non-Process Wastewater Flow Balance
Dow Chemical Company TPDES New Permit Application



TR WK2-1.c

(Contract Laboratory Information)

ATTACHMENT TR WK2-1.c

Contract Laboratory Information

Name: ALS Houston

Address: 10450 Stancliff Rd. Suite 210, Houston, TX 77099

Telephone: (281) 530-5656

Pollutants Analyzed

- Technical Report Worksheet 2.0 – Tables 1, 2, 3, 6 and 13 required analyses

TR WK2-3.2

(Worksheet 2.0 Data Tables)

ATTACHMENT TR WK2-3.2

OUTFALL 001 Pollutant Analysis Tables -Technical Report 1.0, Worksheet 2.0

3. Specific Testing Requirements

2024 TPDES New Permit Application

The Dow Chemical Company - La Porte Site

Table 1				
	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Sample Type	Grab	Grab	Grab	Grab
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024
Pollutant*				
Biological Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Carbonaceous Biochemical Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Chemical Oxygen Demand	<15.0	<15.0	<15.0	<15.0
Total organic carbon	1.95	2.43	1.85	2.14
Dissolved oxygen	3.37	2.05	1.69	2.59
Ammonia nitrogen	1.1	0.15	0.30	0.34
Total suspended solids	18.8	4.64	3.30	3.60
Nitrate nitrogen	0.0506	0.0643	<0.1	0.0989
Total organic nitrogen	<0.50	0.85	1	0.66
Total phosphorus	0.123	0.162	0.101	0.199
Oil and grease	1.33	2.38	0.870	<2.00
Total residual chlorine	0.00	0.00	0.00	0.00
Total dissolved solids	668	668	648	696
Sulfate	26.9	25.7	20.9	20.9
Chloride	296	237	263	267
Fluoride	0.402	0.460	0.422	0.562
Total alkalinity (mg/L as CaCO3)	282	305	277	287.00
Temperature (°F)	78.4	78.9	82.0	84.0
pH (standard units)	8.4	8.1	7.2	9.0

* results in mg/L unless otherwise noted

mg/L - milligram per Liter

Table 2					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aluminum, total	31.3	34.9	37.1	43.6	2.5
Antimony, total	<5.00	<5.00	<5.00	<5.00	5
Arsenic, total	8.69	8.10	9.10	9.96	0.5
Barium, total	318	345	385	385	3
Beryllium, total	<5.00	<5.00	<5.00	<5.00	0.5
Cadmium, total	<2.00	<5.00	<5.00	<2.00	1
Chromium, total	0.709	0.572	0.545	1.22	3
Chromium, hexavalent	<0.5	<0.5	<0.5	<0.5	3
Chromium, trivalent	1	1	1	1	N/A
Copper, total	5.67	0.413	0.679	0.351	2
Cyanide, available	<2.00	<2.00	<2.00	<2.00	15
Lead, total	0.258	<2.00	<2.00	<2.00	0.5
Mercury, total	0.00061	0.00085	<0.0005	<0.0005	0.005/0.0005
Nickel, total	3.12	2.81	3.66	3.79	2
Selenium, total	<2.00	<2.00	<2.00	<2.00	5
Silver, total	<2.00	<2.00	<2.00	<2.00	0.5
Thallium, total	<2.00	<2.00	<2.00	<2.00	0.5
Zinc, total	17.9	12.0	11.4	7.08	5

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 3					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Acrylonitrile					
Anthracene					
Benzene	<5.0	<5.0	<5.0	<5.0	10
Benzidine					
Benzo(a)anthracene					
Benzo(a)pyrene					
Bis(2-chloroethyl)ether					
Bis(2-ethylhexyl)phthalate					
Bromodichloromethane [Dibromochloromethane]					
Bromoform					
Carbon tetrachloride					
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	10
Chlorodibromomethane					
Chloroform	<5.0	<5.0	<5.0	<5.0	10
Chrysene					
m-Cresol [3-Methylphenol]					
o-Cresol [2-Methylphenol]					
p-Cresol [4-Methylphenol]					
1,2-Dibromoethane					
m-Dichlorobenzene [1,3-Dichlorobenzene]					
o-Dichlorobenzene [1,2-Dichlorobenzene]					
p-Dichlorobenzene [1,4-Dichlorobenzene]					
3,3'-Dichlorobenzidine					
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	10
1,1-Dichloroethene [1,1-Dichloroethylene]					

Table 3 Continued	
Dichloromethane [Methylene chloride]	
1,2-Dichloropropane	
1,3-Dichloropropene [1,3-Dichloropropylene]	
2,4-Dimethylphenol	
Di-n-Butyl phthalate	
Ethylbenzene	
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Methyl ethyl ketone	
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitroso-di-n-butylamine	
Nonylphenol	
Pentachlorobenzene	
Pentachlorophenol	
Phenanthrene	
Polychlorinated biphenyls (PCBs)	

Table 3 Continued					
Pyridine					
1,2,4,5-Tetrachlorobenzene					
1,1,2,2-Tetrachloroethane					
Tetrachloroethene [Tetrachloroethylene]	<5.0	<5.0	<5.0	<5.0	10
Toluene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
Trichloroethene [Trichloroethylene]	<5.0	<5.0	<5.0	<5.0	10
2,4,5-Trichlorophenol					
TTHM (Total trihalomethanes)					
Vinyl chloride	<2.0	<2.0	<2.0	<2.0	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 6						
	Believed Present (YES or NO)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	-	Grab	Grab	Grab	Grab	-
Sample Date	-	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutants**						
Bromide	NO					
Color (PCU)	NO					
Nitrate-Nitrite (as N)	YES	50.6	64.3	<200	98.9	-
Sulfide (as S)	NO					
Sulfite (as SO3)	NO					
Surfactants	NO					
Boron, total	YES	90.3	84.4	118	183	20
Cobalt, total	NO					
Iron, total	YES	919	1,120	1,100	1,170	7
Magnesium, total	YES	23,200	20,600	21,400	22,600	20
Manganese, total	YES	337	482	519	567	0.5
Molybdenum, total	YES	4.74	4.05	3.50	2.73	1
Tin, total	NO					
Titanium, total	NO					

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

** results in ug/L unless otherwise noted

ug/L - micrograms per Liter

Table 13					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aniline	<5.00	<5.00	<5.00	<5.00	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

July 22, 2024

Certified Mail No. 7019 0140 0000 1333 0372 **Return Receipt Requested**

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

RE: TCEQ Individual New TPDES Permit Application
Permit No. WQ000-NEW
The Dow Chemical Company
La Porte Site, ORS System
La Porte, Harris County, Texas
RN 102414232; CN600356976

Dear Applications Team Member:

Please find enclosed three copies (one original with original wet-ink signature and two copies) of the Texas Commission on Environmental Quality (TCEQ) New Texas Pollutant Discharge Elimination System (TPDES) Permit Application package for The Dow Chemical Company, La Porte Site, ORS System.

Dow owns and operates the groundwater organics recovery system (ORS) at the La Porte Site. The ORS System currently discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. However, Dow has prepared an application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001, and will terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000 after termination of wastewater services at the site.

The application and processing fee of $350.00 check number 2200702423 was submitted separately via Overnight Mail to the TCEQ Cashier's Office on July 15, 2024.

Please contact Ms. Brandi McCoy, Dow Texas Regional Water Manager, at (979)-238-0636 or via email at bbmccoy@dow.com with any questions.

Sincerely,

Sharon Hulgan
La Porte Site Operations Director

Electronic Copy: WQDeCopy@tceq.texas.gov

Table of Contents

Industrial Administrative Report 1.0	Admin Report
Industrial Technical Report 1.0	Tech Report
TCEQ Core Data Form	AR 1.0-4.a
USGS Topographic Map	AR 1.0-11.b
Adjacent Properties Downstream of Outfalls Map	AR 1.1-1.a
Adjacent Landowner Mailing Labels and Cross-Reference List	AR 1.1-1.c
Public Involvement Plan Form	AR 1.1-2
Outfall Photographs and Photo Location Map	AR 1.1-3
SPIF / USGS Topo Map	AR SPIF-8
Permit Application Narrative Discussion	TR 1.0-1.a
Facility Map	TR 1.0-1.d
Water Balance Diagram	TR 1.0-2.b
Contract Laboratory Information	TR WK2-2.c
Worksheet 2.0 Data Tables	TR WK2-3.2

INDUSTRIAL ADMINISTRATIVE REPORT 1.0

- TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ INDUSTRIAL WASTEWATER PERMIT APPLICATION

INDUSTRIAL ADMINISTRATIVE REPORT 1.0

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

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

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

Applicant Name: The Dow Chemical Company (Dow) EPA ID No.: TXD000017756

Permit No.: N/A Expiration Date: N/A

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☐ Active ☒ Inactive

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

☒ TPDES Permit ☐ TLAP

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: N/A

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 [1]	☐ $2,050	☐ $2,015	☐ $450

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

h. Payment Information

Mailed

Check or money order No.: 2200702423 Check or money order amt.: $350.00

Named printed on check or money order: Texas Commission on Environmental Quality

Epay

Voucher number: N/A Copy of voucher attachment: N/A

Item 2. Applicant Information (Instructions, Pages 25)

a. Customer Number, if applicant is an existing customer: CN600356976

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[2].

b. Legal name of the entity (applicant) applying for this permit: The Dow Chemical Company

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

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

☐ Mr. ☒ Ms. First/Last Name: Sharon Hulgan

Title: Operations Director Credential: Click to enter text.

d. Will the 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 3. Co-applicant Information (Instructions, Page 26)

☒ 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.)

☐ Mr. ☐ Ms. First/Last 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.

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

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

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: AR 1.0-4.a

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

☐ Mr. ☒ Ms. Full Name (First and Last): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East

City: Lake Jackson State: Texas Zip Code: 77566

Phone No: 979.238.0636 Fax No: 979.235.8117 Email: bbmccoy@dow.com

b. ☒ Administrative Contact . ☒ Technical Contact

☒ Mr. ☐ Ms. Full Name (First and Last): Gary Moore

Title: EH&S Delivery Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 550 Independence Parkway South

City: La Porte State: Texas Zip Code: 77571

Phone No: 713.301.4407 Fax No: Click to enter text. Email: gmoore3@dow.com

Attachment: Click to enter text.

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

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

a. ☒ Mr. ☐ Ms. Full Name (First and Last): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

City: Freeport State: Texas Zip Code: 77541

Phone No: 979-238-5568 Fax No: Click to enter text. Email: DBelote@dow.com

b. ☐ Mr. ☒ Ms. Full Name (First and Last): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East

City: Lake Jackson State: Texas Zip Code: 77566

Phone No: 979.238.0636 Fax No: 979.235.8117 Email: bbmccoy@dow.com

Attachment: Click to enter text.

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

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

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

☒ Mr. ☐ Ms. Full Name (First and Last): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

City: Freeport State: Texas Zip Code: 77541

Phone No: 979-238-5568 Fax No: Click to enter text. Email: DBelote@dow.com

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

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

☒ Mr. ☐ Ms. Full Name (First and Last): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

City: Freeport State: Texas Zip Code: 77541

Phone No: 979-238-5568 Fax No: Click to enter text. Email: DBelote@dow.com

Item 9. NOTICE INFORMATION (Instructions, Pages 27

a. Individual Publishing the Notices

☐ Mr. ☒ Ms. Full Name (First and Last): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East

City: Lake Jackson State: Texas Zip Code: 77566

Phone No: 979.238.0636 Fax No: 979.235.8117 Email: bbmccoy@dow.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: bbmccoy@dow.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 332 SH 332 East

City: Lake Jackson State: Texas Zip Code: 77566

c. Contact in the Notice

☐ Mr. ☒ Ms Full Name (First and Last): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Phone No: 979.238.0636 Fax No: 979.235.8117 Email: bbmccoy@dow.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: Harris County Public Library; La Porte Branch Library Location within the building: Reference

Physical Address of Building: 600 South Broadway

City: La Porte 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.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No ☐ N/A

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

f. Plain Language Summary Template – Complete the Plain Language Summary at the end of this application.

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: AR 1.1-2

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN102414232

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): The Dow Chemical Company, La Porte Site

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

☐ Yes ☐ No ☒ N/A (new permit)

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

d. Owner of treatment facility:

☐ Mr. ☐ Ms. Full Name (First and Last): Click to enter text.

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685

City: La Porte State: Texas Zip Code: 77572

Phone No: (281) 228-2238 Fax No: Click to enter text. Email: Click to enter text.

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

f. Owner of land where treatment facility is or will be: Click to enter text.

☐ Mr. ☐ Ms. Full Name (First and Last): Click to enter text.

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685

City: La Porte State: Texas Zip Code: 77572

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

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

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

☐ Mr. ☐ Ms. Full Name (First and Last): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

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

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

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

☐ Mr. ☐ Ms. Full Name (First and Last): N/A

or Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

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

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

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Pages 30-32)

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

☐ Yes ☒ No

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

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

Attachment: AR 1.0-11.b

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: Proposed Outfall 001 will be approximately located at coordinates 29°42'35"N, 95°04'35"W

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: See Attachment TR 1.0-1.a, Section 3

f. City nearest the outfall(s): La Porte

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

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: Authorized ORS discharges already occurring under current LPO TPDES permit WQ0000663000 through existing Outfall 001.

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

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

☐ Yes ☐ No or New Permit

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. Disposal Site Latitude: N/A Longitude: N/A

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

n. 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 32)

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

☒ Yes ☐ No

If yes, list each person: Laura Dickson

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the account no.: Click to enter text. and total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the enforcement order no.: Click to enter text. and amount due: Click to enter text.

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

Permit No: WQ000 N/A

Applicant Name: The Dow Chemical Company

Certification: I, Sharon Hulgan, 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): Sharon Hulgan

Signatory title: Operations Director

Signature: Sharon D. Hulgan (Use blue ink) Date: July 22, 2024

Subscribed and Sworn to before me by the said Sharon D. Hulgan

on this 22nd day of July, 20 24.

My commission expires on the 30th day of April, 20 25.

Khloe N. Brennan
Notary Public

Harris
County, Texas

[SEAL] Khloe Brennon
My Commission Expires
04/30/2025
ID No. 129155313

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

INDUSTRIAL ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

- ☒ The applicant's property boundaries.
- ☒ The facility site boundaries within the applicant's property boundaries.
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.
- ☒ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.
- ☒ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.
- ☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.
- ☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: AR 1.1-1.a

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

☐ Readable/Writeable CD ☒ Four sets of labels

c. Attachment: AR 1.1-1.c

d. Provide the source of the landowners' names and mailing addresses: Harris County

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

☐ Yes ☒ No

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

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

Complete and attach one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit. Attachment: AR 1.1-2

Item 3. ORIGINAL PHOTOGRAPHS (Instructions, Page 36)

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

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

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

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

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

Attachment: AR 1.1-3

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING 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 36)

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

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

The following applies to all applications:

1. Permittee Name: The Dow Chemical Company

2. Permit No.: WQ000 N/A EPA ID No.: TXD000017756

3. Address of the project (location description that includes street/highway, city/vicinity, and county): 550 Independence Parkway South, La Porte, Texas 77571

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

   Full Name (First and Last): Donnie Belote

   Organization Name: The Dow Chemical Company Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

   City: Freeport State: Texas Zip Code: 77541

   Phone No: 979-238-5568 Fax No: Click to enter text. Email: DBelote@dow.com

5. List the county in which the facility is located: Harris

6. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property: N/A

7. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number: Unnamed ditch to tidal ditch to San Jacinto Bay Segment 2427.

8. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report.) Attachment: AR SPIF-8

9. Provide original photographs of any structures 50 years or older on the property. Attachment: N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

10. 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

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

12. 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

13. List construction dates of all buildings and structures on the property: N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

14. Provide a brief history of the property, and name of the architect/builder, if known: The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division. In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes business, (both located on the LPO site) to Illinois Tool Works, Inc. (now Johns Manville), and Lubrizol Corporation, respectively, and leased these portions of the site to Illinois Tool Works, Inc. and Lubrizol. On December 30, 2019, Dow sold the majority of the land and above-ground assets, such as the boiler and the cooling tower, to Lubrizol Corporation, but Dow continues to operate these assets through the end of 2024. Dow will retain ownership and operation of the groundwater organics recovery system (ORS) and the remediation ownership of groundwater liabilities. Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun and is expected to be complete by the end of 2025. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be limited to discharge from the groundwater ORS. The ORS currently discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. However, Dow has prepared this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001, and will terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000 after termination of wastewater services.

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM (To Be Submitted Separately)

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** New Permit

1. Check or Money Order Number: 2200702423
2. Check or Money Order Amount: $350.00
3. Date of Check or Money Order: July 3, 2024
4. Name on Check or Money Order: Texas Commission on Environmental Quality
5. APPLICATION INFORMATION

   Name of Project or Site: The Dow Chemical Company, La Porte Site, ORS System

   Physical Address of Project or Site: 550 Independence Parkway South, LaPorte, Texas 77571

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 37)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

Checklist of Common Deficiencies

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

☒ Plain Language Summary

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

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

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

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

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

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

The Dow Chemical Company (Dow) (CN600356976), operates the Dow La Porte site (RN102414232) groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility. The site is located at 550 Independence Parkway South, in La Porte, Harris County, Texas 77571. The Dow Chemical Company, La Porte Site, formerly manufactured specialty chemicals. Dow ceased chemical manufacturing operations at the La Porte site in 2023. This application requests an individual TPDES discharge permit for coverage of discharge from the existing groundwater recovery and treatment system owned and operated by Dow. Discharges from the groundwater recovery and treatment system are currently permitted under the Dow La Porte site current TPDES permit number WQ0000663000. The existing TPDES will be transferred or terminated in conjunction with issuance of the new TPDES permit. Dow proposes that new discharge point associated with this new permit be identified as Outfall 001 (proposed). The discharge from proposed Outfall 001 will be treated groundwater from the Dow groundwater ORS.

Discharges from proposed Outfall 001 are proposed to be monitored for pH, aniline, benzene, chlorobenzene and trichloroethene. Discharge frequency and rate requested for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day. Specific testing requirements were completed as part of this renewal application and are included in the Industrial Wastewater Application Technical report, Worksheet 2.0. Groundwater from the recovery system will be treated for organics removal through the groundwater treatment unit using a carbon filtration system before being discharged to proposed Outfall 001.

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

AGUAS RESIDUALES INDUSTRIALES/AGUAS PLUVIALES

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

Dow Chemical Company (Dow) (CN600356976), opera el sistema de eliminación orgánica de aguas subterráneas (ORS, por sus siglas en inglés) del sitio Dow La Porte (RN102414232) en una antigua instalación de fabricación de productos químicos industriales. El sitio está ubicado en la 550 Independence Parkway South, La Porte, Harris County, Texas 77571. Dow Chemical Company, sitio de La Porte, anteriormente fabricaba productos químicos especiales. Dow cesó las operaciones de fabricación de productos químicos en el sitio de La Porte en 2023. Esta aplicación solicita un permiso de descarga TPDES individual para cubrir la descarga del sistema existente de recuperación y tratamiento de aguas subterráneas propiedad de Dow y operado por ella. Las descargas del sistema de recuperación y tratamiento de aguas subterráneas están actualmente permitidas según el permiso TPDES actual del sitio de Dow La Porte número WQ0000663000. El TPDES existente se transferirá o cancelará junto con la emisión del nuevo permiso TPDES. Dow propone que el nuevo punto de descarga asociado con este nuevo permiso se identifique como Desagüe 001 (propuesto). La descarga del Desagüe 001 propuesto será agua subterránea tratada del ORS de agua subterránea de Dow.

Se propone monitorear el pH, anilina, benceno, clorobenceno y tricloroeteno de las descargas del Desagüe 001 propuesto. La frecuencia y tasa de descarga solicitadas para el Desagüe Propuesto 001 serán intermitentes (por lotes) y variables, y no excederán la capacidad máxima de diseño del sistema de recuperación de 80,000 galones por día. Se completaron requisitos de prueba específicos como parte de esta solicitud de renovación y se incluyen en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. El agua subterránea del sistema de recuperación será tratada para eliminar la materia orgánica a través de la unidad de tratamiento de agua subterránea utilizando un sistema de filtración de carbón antes de descargarse al Desagüe 001 propuesto.

INDUSTRIAL TECHNICAL REPORT 1.0

TECHNICAL REPORT 1.0
INDUSTRIAL

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

For additional information or clarification on the requested information, refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website.

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

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

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

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

See Attachment TR 1.0-1.a, Section 1 (Site Background and Description of Business Activities) for a description of the general nature of the business and type(s) of industrial and commercial activities.

Additional permit application narrative sections of Attachment TR 1.0-1.a include:

Section 2 - Proposed Site Activities

Section 3 – Proposed Outfall Description

Section 4 - Permit Application Sampling

Section 5 – Proposed Outfall 001 Permit Provisions

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

See Attachment TR 1.0-1.a, Section 2

[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
None		

Attachment: None

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: TR 1.0-1.d

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

☒ Yes ☐ No

If yes, provide background discussion: See Attachment TR 1.0-1.a, Sections 1 and 2

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA Flood Study – Harris County

If no, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text

Attachment: Click to enter text

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

☐ Yes ☒ No ☐ N/A (renewal only)

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

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text

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

2. TREATMENT SYSTEM (Instructions, Page 40)

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

See Attachment TR 1.0-1.a, Section 2.1

b. Attach a flow schematic with a water balance showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: TR 1.0-2.b

3. IMPOUNDMENTS (Instructions, Pages 40-42)

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

☐ Yes ☒ No

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

a. Complete the table with the following information for each existing, new, or proposed impoundment:

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

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

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

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

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

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

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

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

Impoundment Information

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

Impoundment Information

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

Attachment: Click to enter text

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

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

i. Liner data

☐ Yes ☐ No ☐ Not yet designed

ii. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

iii. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: Click to enter text

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

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

Attachment: Click to enter text

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

Attachment: Click to enter text

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

Attachment: Click to enter text

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

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

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/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 Latitude and Longitude

Outfall Number	Latitude-decimal degrees	Longitude-decimal degrees
001	29^{0}42'35''	95^{0}04'35''

Outfall Location Description

Outfall Number	Location Description
001	Immediately adjacent to the location of current Outfall 001 (TPDES permit WQ0000663000) where the outlet pipe for final discharge of the wastewater treatment plant enters the un-named ditch; thence to San Jacinto Bay in Segment 2427 of the Bays and Estuaries.

Description of Sampling Points (if different from Outfall location)

Outfall Number	Description of Sampling Point
001	At the outlet pipe for final discharge of the ORS treatment unit enters the un-named ditch

Outfall Flow Information – Permitted and Proposed

Outfall Number	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	N/A	N/A	0.01	0.08	TBD

Outfall Discharge – Method and Measurement

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

Outfall Discharge – Flow Characteristics

Outfall Number	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	Y	N	N	Variable	Variable	12

Wastestream Contributions

Outfall No.: 001

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Groundwater Organics Removal System	0.08	100

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text

e. Cooling Towers and Boilers

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

Cooling Towers and Boilers

Type of Unit	Number of Units	Dly Avg Blowdown (gallons/day)	Dly Max Blowdown (gallons/day)
Cooling Towers	N/A		
Boilers	N/A		

6. STORMWATER MANAGEMENT (Instructions, Page 44)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☒ Domestic sewage is not generated on-site.

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
N/A	

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

9. TOXICITY TESTING (Instructions, Page 45)

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

☐ Yes ☒ No

If yes, identify the tests and describe their purposes: N/A

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

Attachment: N/A

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

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

☐ Yes ☒ No

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

If no, proceed to Item 11.

b. Attach the following information to the application:

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

Attachment: N/A

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

☐ Yes ☒ No

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

Attachment: N/A

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

☐ Yes ☒ No

If yes, Worksheet 6.0 of this application is required.

11. RADIOACTIVE MATERIALS (Instructions, Pages 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material	Concentration (pCi/L)

Radioactive Material	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material	Concentration (pCi/L)

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

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

If yes, stop here. If no, continue.

c. Cooling Water Supplier

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

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

CWIS ID	Undetermined			

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

☐ Yes ☐ No

If no, continue. If yes, provide the PWS Registration No. and stop here: PWS No. N/A

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

If yes, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes to the facility and proceed: Click to enter text.

If no, proceed to Item 12.d.

d. 316(b) General Criteria N/A

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

If yes, complete Worksheet 11.0, Items 1(a), 1(b)(i-iii) and (vi), 2(b)(i), and 3(a) to allow for a determination based upon BPJ. If no, skip to Item 12.g.iii.

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

☐ Track I – AIF greater than 2 MGD, but less than 10 MGD
- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

☐ Track I – AIF greater than 10 MGD
- Attach information required by *40 CFR § 125.86(b)*.

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

Attachment: Click to enter text

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility
- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – Not a fixed facility
- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except the CWIS latitude and longitude under Item 2.a).

☐ Track II – Fixed facility
- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

If yes, list and discuss the requested changes.

Click to enter text.

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

☐ Yes ☒ No

If yes, list and discuss the requested changes.

Click to enter text.

WORKSHEET 1.0
EPA CATEGORICAL EFFLUENT GUIDELINES

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

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

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

☐ Yes ☒ No

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

40 CFR Effluent Guidelines

Industry	40 CFR Part
N/A	

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

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

a. Production Data

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

Production Data

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

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

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

Percentages of Total Production

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

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

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

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

See Attachment TR 1.0-2.b

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
N/A			

WORKSHEET 2.0
POLLUTANT ANALYSES REQUIREMENTS

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

1. LABORATORY ACCREDITATION (Instructions, Page 56)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 34, for a list of approved signatories.

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

Sharon D. Hulgan — July 22, 2024
(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 5/7/24 – 5/28/24

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

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** TR WK2-2.c

3. SPECIFIC TESTING REQUIREMENTS (Instructions, Pages 58-69)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001

Samples are (check one): ☐ Composite ☐ Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001

Samples are (check one): ☐ Composites ☐ Grabs

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

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Thallium, total					0.5
Zinc, total					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.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001

Samples are (check one): ☐ Composites ☐ Grabs

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

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. Tributyltin

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

☐ Yes ☒ No

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

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

b. Enterococci (discharge to saltwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☒ No

ii. Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

Table 4 for Outfall No.: N/A
Samples are (check one): ☐ Composites ☐ Grabs

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

Table 5 for Outfall No.: N/A

Samples are (check one): ☐ Composites ☐ Grabs

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

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 is required for all external outfalls.

Table 6 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001

Samples are (check one): ☐ Composites ☐ Grabs

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

* Indicate units if different from µg/L.

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

Table 8 for Outfall No.: N/A : Volatile Compounds

Samples are (check one): ☐ Composites ☐ Grabs

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

* Indicate units if different from µg/L.

Table 9 for Outfall No.: N/A : Acid Compounds

Samples are (check one): ☐ Composites ☐ Grabs

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

* Indicate units if different from µg/L.

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

Samples are (check one): ☒ Composites ☐ Grabs

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

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

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A : Pesticides

Samples are (check one): ☐ Composites ☐ Grabs

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: N/A

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

a. 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). N/A

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

Description: Click to enter text.

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

- ☐ Yes ☒ No

Description: Click to enter text.

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

Table 12 for Outfall No.: N/A

Samples are (check one): ☐ Composites ☐ Grabs

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

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

Table 13 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001

Samples are (check one): ☐ Composites ☐ Grabs

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

WORKSHEET 4.0
RECEIVING WATERS

This worksheet is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

i. The legal name of the owner of the drinking water supply intake: Click to enter text.

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

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

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

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

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

a. Width of the receiving water at the outfall: N/A feet

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

3. CLASSIFIED SEGMENT (Instructions, Page 81)

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

☐ Yes ☒ No

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

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

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

a. Name of the immediate receiving waters: Unnamed

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

☐ Lake or Pond
- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☒ Man-Made Channel or Ditch
☐ Stream or Creek
☐ Freshwater Swamp or Marsh
☐ Tidal Stream, Bayou, or Marsh
☐ Open Bay
☐ Other, specify: Click to enter text.

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

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

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

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

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

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

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: San Jacinto Bay in Segment 2427

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: From unnamed ditch to tidal ditch then to San Jacinto Bay of Segment 2427 of the Bays and Estuaries.

f. General observations of the water body during normal dry weather conditions: Unnamed ditch – clear with slight brown tint.

Date and time of observation: March 6, 2024; 4:37 PM.

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

☐ Yes ☒ No

If yes, describe how:

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

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

- ☐ oil field activities
- ☐ agricultural runoff
- ☒ upstream discharges
- ☒ urban runoff
- ☐ septic tanks
- ☒ other, specify: Industrial and commercial activities

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: None

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 discolore

ADMINISTRATIVE REPORT
ATTACHMENTS

AR 1.0-4.a

(TCEQ Core Data Form)

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600356976		**RN 102414232**

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:*

The Dow Chemical Company

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0001216206	13812851288	381285128	08-497-05

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:

2030 Dow Center

City	Midland	**State**	MI	**ZIP**	48674	**ZIP + 4**	

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

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

(281) 228-2238		(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.)*

Dow Chemical La Porte Site

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	550 Independence Parkway South							
	City	La Porte	**State**	TX	**ZIP**	77571	**ZIP + 4**	9768
24. County	Harris							

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

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

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	42	38	95	04	49

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)
		562910	

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

Groundwater Remediation

34. Mailing Address:	**Attention: Ms. Brandi McCoy**							
	P.O Box 685							
	City	**La Porte**	**State**	**TX**	**ZIP**	**77572**	**ZIP + 4**	
35. E-Mail Address:	**fhubehs@dow.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 228-2238		**(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
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	Permit No. To Be Determined			

SECTION IV: Preparer Information

40. Name:	Brandi B. McCoy	41. Title:	Texas Regional Water Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(979) 238-0636		(979) 235-8117	bbmccoy@dow.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:	The Dow Chemical Company	Job Title:	Operations Manager
Name *(In Print)*:	Sharon Hulgan	Phone:	(281) 228- 2238
Signature:	Sharon D. Hulgan	Date:	July 23 2024

AR 1.0-11.b

(USGS Topographic Map)

USGS
science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

LA PORTE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15R
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	September 2016
Roads	U.S. Census Bureau,	2015
Names	GNIS,	1979
Hydrography	National Hydrography Dataset,	2012
Contours	National Elevation Dataset,	2010
Boundaries	Multiple sources; see metadata file	2015
Wetlands	FWS National Wetlands Inventory	Not Available

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

ADJOINING QUADRANGLES
1 Jacinto City
2 Highlands
3 West Belview
4 Pasadena
5 Morgans Point
6 Friendswood
7 League City
8 Bacliff

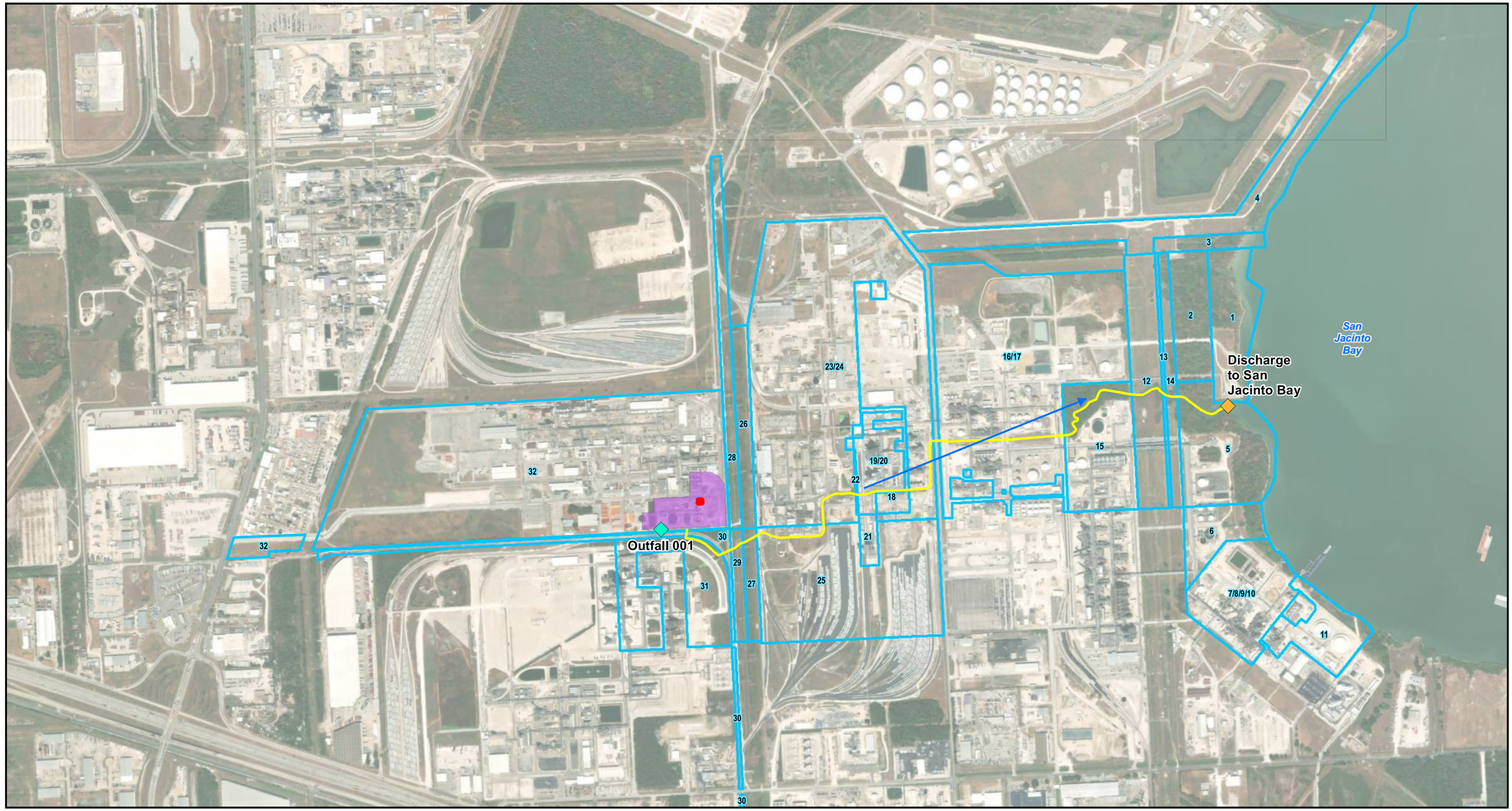
ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

LA PORTE, TX
2022

MSN
MGARef-NO-1.0.0.9.2.1.K.0.1.1.0

AR 1.1-1.a

(Adjacent Properties Downstream of Outfalls Map)



Legend

- Point of Discharge
- Outfall Location
- Outfall Flow Direction
- Outfall Discharge Path
- Facility Boundary
- Applicant (Dow) Property Boundary
- Adjacent Properties

N

0 1,000 2,000

Feet



Attachment AR1.1-1.a

Adjacent Properties Downstream of Outfalls

The Dow Chemical Company

LaPorte Site

Imagery Date: 9/1/2023

Drawing Date: 4/26/2024

Drawn By: Jacobs

\\DC1VS01\GISPROJ\D\DOWCHEMICALS\LAPORTE\MAPFILES\2023\ADJPROP_WTPFAC.MXD GTWIGG 4/26/2024 1:32:05 PM

AR 1.1-1.c

(Adjacent Landowner Mailing Labels and Cross-Reference List)

Attachment AR 1.1-1.c
Adjacent Landowner Cross-Reference List
Dow Chemical - La Porte Site
TPDES Permit Number WQ000-NEW

Map ID (Reference Attachment AR 1.1-1.a)	OWNER NAME	OWNER ADDRESS
31	BRASKEM AMERICA INC	% TAX DEPT, 1735 MARKET ST, STE LL, PHILADELPHIA, PA 19103-7528
26, 27, 28, 29	CENTERPOINT ENERGY HOU ELE	PROPERTY TAX DEPT, 38TH FLR, PO BOX 1475, HOUSTON, TX 77251-1475
14	COASTAL INDUSTRIAL WATER	1200 SMITH ST, STE 2260, HOUSTON, TX 77002-4500
18, 19, 22, 24, 25	EQUISTAR CHEMICALS LP	% PROPERTY TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
12	EXXON PIPELINE 00610	PO BOX 53, HOUSTON, TX 77001-0053
4	EXXON PIPELINE 00650	PO BOX 53, HOUSTON, TX 77001-0053
13	EXXON PIPELINE 00705	PO BOX 53, HOUSTON, TX 77001-0053
11, 16	LA PORTE METHANOL CO LP	PO BOX 3646, HOUSTON, TX 77253-3646
7	LINDE GAS INC	10 RIVERVIEW DR, DANBURY, CT 06810-6268
8	LINDE GAS INC	575 MOUNTAIN AVE, NEW PROVIDENCE, NJ 07974-2097
32	LUBRIZOL ADVANCED MATERIALS INC	600 INDEPENDENCE PKWY, LA PORTE, TX 77571
20, 21	LYB LA PORTE HYPERZONE LLC	% REAL ESTATE COUNSEL LYONDELL BASELL, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
9	LYONDELL BASELL ACETYLS LLC	% LYONDELL CHEMICAL CO, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
2, 10, 17, 23	LYONDELLBASELL ACETYLS LLC	ATTN TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
5, 6, 15	OLEFINS JV LP	1221 MCKINNEY ST, HOUSTON, TX 77010-2011
3	OXY VINYLS LP	C/O TAX DEPT, PO BOX 27570, HOUSTON, TX 77227-7570
1	PORT OF HOUSTON AUTHORITY	111 EAST LOOP N, HOUSTON, TX 77029-4326
30	SOUTHERN PACIFIC RAILROAD COMPANY	UNION PACIFIC RAILROAD CO, 1400 DOUGLAS ST, STOP 1640, OMAHA, NE 68179-1001

AR 1.1-2

(Public Involvement Plan Form)

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.

The source of industrial wastewater to be authorized by the LPO new TPDES permit is currently authorized under LPO TPDES permit number WQ0000663000. The current permit was not considered to have significant public interest; therefore, the new permit application is not expected to either.

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)

AR 1.1-3

(Photographs of Outfalls and

Outfall Photo Location Map)

Attachment AR 1.1-3
Photographs of Outfalls

Future Outfall 001 Picture 001-01

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing east.

Attachment AR 1.1-3
Photographs of Outfalls

Future Outfall 001 Picture 001-02

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing west, away from future Outfall 001.





Legend

- Outfall Location
- Facility Boundary

0 350 700
Feet

Imagery Source:
ESRI World Imagery online mapping service, 9/1/2023

Attachment AR 1.1-3
Outfall Photo Locations

The Dow Chemical Company
La Porte Site

N

DOW

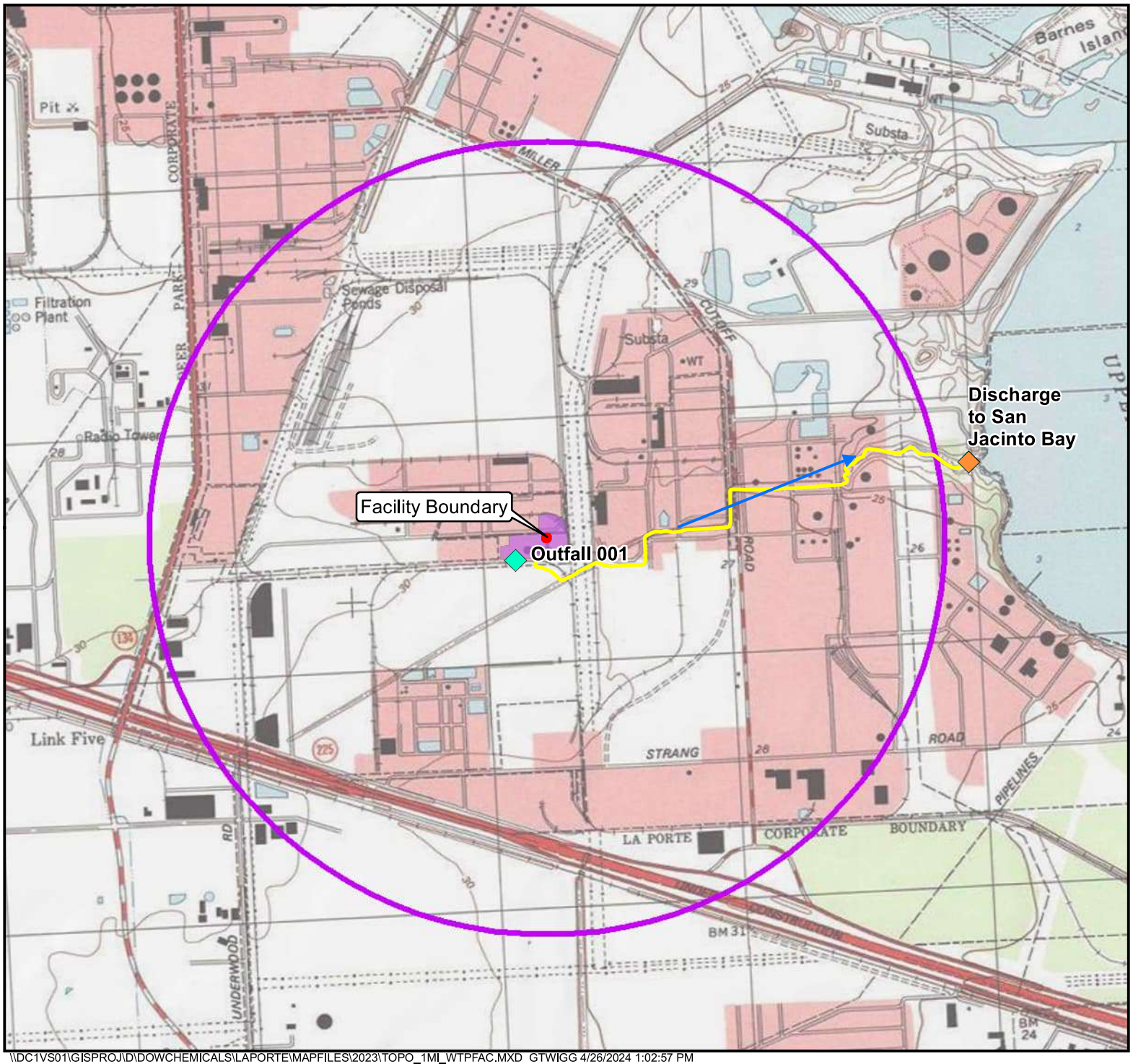
Drawing Date: 4/26/2024

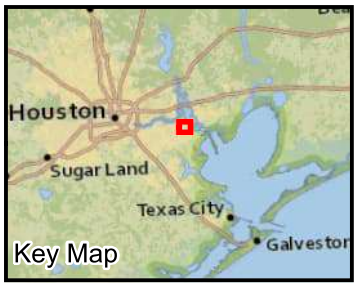
Drawn By: Jacobs

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AR SPIF-8

(USGS Topographic Map)





Legend

- Point of Discharge
- Outfall Location
- Outfall Flow Direction
- Outfall Discharge Path
- Facility Boundary
- One Mile Radius
- Applicant (Dow) Property Boundary

0 925 1,850
Feet

USGS 7.5 Minute Topographic Quadrangles:
La Porte, TX

Attachment AR SPIF-8
USGS Topographic Map

The Dow Chemical Company
La Porte Site

N

DOW®

Drawing Date: 4/26/2024

Drawn By: Jacobs

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TECHNICAL REPORT
ATTACHMENTS

TR 1.0-1.a

(Permit Application Narrative Discussion)

ATTACHMENT

TR 1.0-1.a

DOW CONFIDENTIAL- DO NOT SHARE WITHOUT PERMISSION

The Dow Chemical Company (Dow) has prepared this Texas Pollutant Discharge Elimination System (TPDES) new permit application for its existing groundwater recovery and treatment system at the La Porte Operations (LPO) site in La Porte, Harris County, Texas.

1. Site Background and Description of Business Activities

The LPO site has historically functioned as manufacturer of specialty chemicals (primary SIC code 2869). While Dow has ceased manufacturing operations at the site, historically the basic products manufactured by Dow included monomeric methylene diphenyldiisocyante and related pre-polymers

The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division.

In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes (TPU) business, (both located on the LPO site) to Illinois Tool Works, Inc. (ITW) (now Johns Manville), and Lubrizol Corporation (Lubrizol), respectively, and leased these portions of the site to ITW and Lubrizol. Specifically, Dow and ITW entered into a Ground and Building Lease on July 9, 2008, and Dow and Lubrizol entered into a Ground Lease Agreement on December 13, 2008. Additionally, Asset Purchase Agreements were executed by and between Dow and ITW on July 9, 2008, and Dow and Lubrizol on December 14, 2008.

On December 30, 2019, Dow sold the majority of the land and above-ground assets, including the boiler and cooling tower, to Lubrizol, but Dow continues to operate these assets through the end of 2024, at which time Dow will turn over operation of these assets (along with other site services like nitrogen, air, and natural gas). Dow also retained ownership and operation of the wastewater treatment plant (WWTP). Dow will provide wastewater services to Johns Manville and Lubrizol until the end of its contractual obligation at the end 2024. At that time, Dow will cease operation of its site wastewater treatment plant (WWTP) and decommission it after all LPO site Notice of Registration (NOR) closures are complete.

Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun, with an expected completion by the end of 2025. Dow will maintain ownership and operation of the groundwater organics recovery system (ORS) at the LPO site and remediation ownership of ORS-associated groundwater liabilities. This new TPDES individual permit application is for continued TPDES coverage of treated groundwater discharges from the ORS (North American Industrial System Classification [NAICS] code 562910). There will be no other sources of discharge.

2. Proposed Site Activities

By the end of 2024, Dow will have ceased all manufacturing operations and operation of its WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be

limited to discharge from the groundwater ORS. Currently, the ORS system discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. The current TPDES allows the ORS effluent to be discharged directly to current Outfall 001 with no additional treatment.

In a February 23, 2024, email correspondence with the Texas Commission on Environmental Quality, Dow proposed to prepare this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001 and terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000. This approach allows Dow to have a clean separation from Lubrizol after Dow exits industrial operations at the site. Dow notes the two permits could possibly overlap. TCEQ responded "If there does end up being an overlap (i.e., the existing permit it still active and in DOWs name when your new permit is issued), as long as there is no dual coverage (i.e., the same outfall being permitted by both authorizations), we see no issue with this path forward."

2.1 Groundwater ORS Operation Summary

The LPO groundwater remediation program is established in the LPO Resources Conservation and Recovery Act (RCRA) Hazardous Waste Permit No. 50253 (RCRA permit). Dow is required to recover subsurface ground water at various locations throughout the site in multiple groundwater zones (sand layers below surface). Groundwater is pumped from a network of recovery wells and a recovery trench to skid units before being sent to a holding tank. Groundwater is then pumped from the holding tank to the ORS treatment unit for organics removal using a carbon filtration system, before being discharged to proposed Outfall 001. Groundwater indicator parameters monitored in the Corrective Action Program, Table IIIA of the LPO RCRA permit include aniline, benzene, chlorobenzene and trichloroethene.

In accordance with Section XI.F.3.b and CP Table VII of the RCRA permit, groundwater monitoring occurs semiannually.

3. Proposed Outfall Description

Proposed Outfall 001 future discharges are described below. The discharge source for the outfall is described in Table 1.

Proposed Outfall 001

Proposed Outfall 001 will have a new outfall location (Latitude: 29 42' 35", Longitude: 95 04'35") but will follow the same discharge route as the current Outfall 001 to the receiving water, to include discharge to an unnamed ditch, thence to tidal ditch, thence to San Jacinto Bay of Segment 2427 of the Bays and Estuaries, which is approximately 1.2 miles from the discharge point for Outfall 001. Discharges from proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the ORS design maximum treatment capacity of 80,000 gallons per day.

Table 1. Outfall Description as Proposed

LPO Facility 2024 New TPDES Permit Application

Outfall	Description of Sources
001 (Proposed)	Intermittent (batch) and variable discharge of treated groundwater

4. Permit Application Sampling

Application sampling was conducted in accordance with TPDES Technical Report 1.0, Worksheet 2.0 for Proposed Outfall 001 and are representative of current ORS discharges.

Analytical results of required sampling for Proposed Outfall 001 are presented in Attachment TR WK2.0-3.2. Samples were analyzed using the minimum analytical limits (MALs) required in Technical Report 1.0.

Attachment TR WK2-2.c provides information on the laboratories used for analyzing data for completing this TPDES permit application.

5. Proposed Outfall 001 Permit Provisions

This section describes the proposed permit provisions for Proposed Outfall 001. Proposed Outfall 001 discharge will be intermittent (batch) comprised treated groundwater from the ORS.

Monitoring Frequency

In accordance with the LPO RCRA corrective action program, groundwater monitoring occurs semiannually. Dow proposes semi-annual monitoring for the proposed permit parameters in the TPDES permit to coincide with the semi-annual groundwater monitoring schedule.

Flow Monitoring

Flow will be continuously measured at Proposed Outfall 001, when discharging, using a flow meter. Discharge frequency and rate for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day.

pH

Monitoring of pH is proposed, as a grab sample at Proposed Outfall 001 with a minimum limit of 6.0 standard units (SU) and a maximum limit of 9.0 standard units (SU).

Indicator Parameters

Effluent monitoring for groundwater indicator parameters currently monitored in the Corrective Action Program of the LPO RCRA permit is proposed at Proposed Outfall 001. The proposed indicator parameters, along with proposed effluent limits are presented in the table below:

Parameter	Proposed BPJ Effluent Limit - Monthly Average (µg/L)	Proposed BPJ Effluent Limit - Daily Maximum (µg/L)
Aniline	N/A	160
Benzene	37	136
Chlorobenzene	15	28
Trichloroethene	21	54

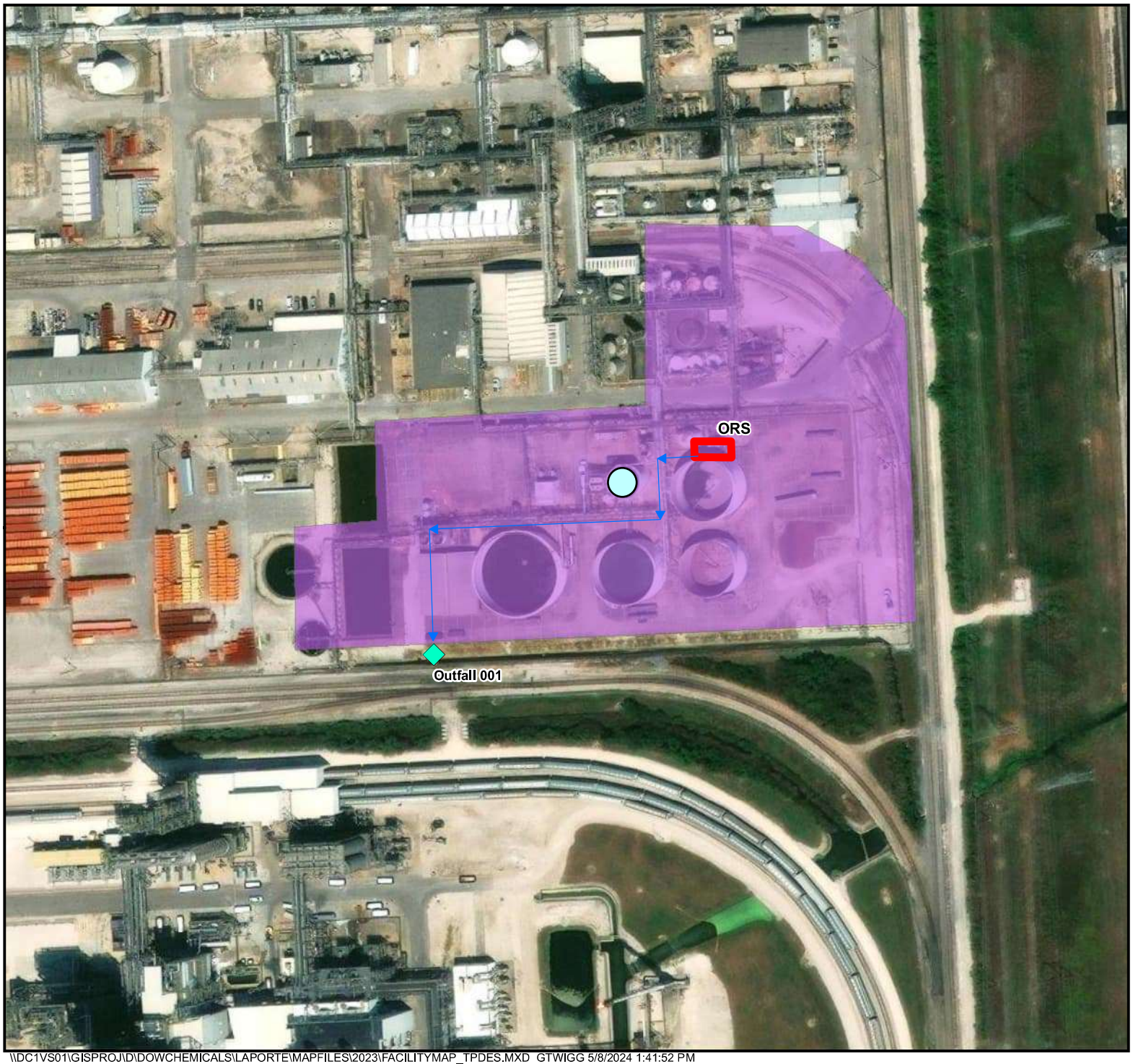
Dow is proposing Best Professional Judgement (BPJ) effluent limits for benzene, chlorobenzene and trichloroethene from as presented in the Fact Sheet from the current LPO TPDES permit No. WQ0000663000. Proposed aniline BPJ effluent limits use Texas Risk Reduction Program (TRRP) Tier 1 protective concentration levels (PCL) Class 3 residential groundwater PCL.

Summary of Outfall 001 Proposed Permit Provisions

Parameter	Proposed Effluent Limit - Monthly Average (µg/L)	Proposed Effluent Limit - Daily Maximum (µg/L)	Proposed Monitoring Frequency
Flow	N/A	N/A	1/6 months
pH	6.0 s.u.(min)	9.0 s.u. (max)	1/6 months
Aniline	N/A	160	1/6 months
Benzene	37	136	1/6 months
Chlorobenzene	15	28	1/6 months
Trichloroethene	21	54	1/6 months

TR 1.0-1.d

(Facility Map)





Legend

- Outfall Location
- Groundwater Holding Tank
- Discharge Route
- Organics Recovery System (ORS)/Carbon Filtration Unit
- Applicant (Dow) Property Boundary

0 100 200
Feet

Imagery Source:
ESRI World Imagery online mapping service, 9/1/2023

Attachment TR 1.0-1.d
Facility Map

The Dow Chemical Company
La Porte Site

N

DOW®

Drawing Date: 5/8/2024

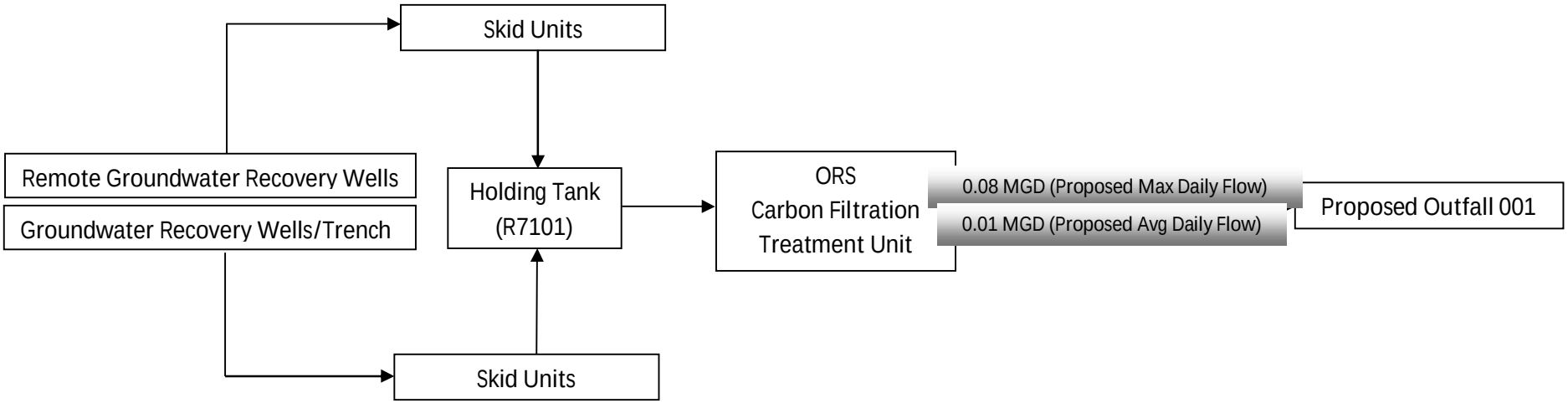
Drawn By: Jacobs

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TR 1.0-2.b

(Water Balance Diagram)

ATTACHMENT TR 2.0-b
Non-Process Wastewater Flow Balance
Dow Chemical Company TPDES New Permit Application



TR WK2-2.c

(Contract Laboratory Information)

ATTACHMENT TR WK2-2.c.

Contract Laboratory Information

Name: ALS Houston

Address: 10450 Stancliff Rd. Suite 210, Houston, TX 77099

Telephone: (281) 530-5656

Pollutants Analyzed

- Technical Report Worksheet 2.0 – Tables 1, 2, 3, 6 and 13 required analyses

TR WK2-3.2

(Worksheet 2.0 Data Tables)

ATTACHMENT TR WK2-3.2

OUTFALL 001 Pollutant Analysis Tables -Technical Report 1.0, Worksheet 2.0

3. Specific Testing Requirements

2024 TPDES New Permit Application

The Dow Chemical Company - La Porte Site

Table 1				
	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Sample Type	Grab	Grab	Grab	Grab
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024
Pollutant*				
Biological Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Carbonaceous Biochemical Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Chemical Oxygen Demand	<15.0	<15.0	<15.0	<15.0
Total organic carbon	1.95	2.43	1.85	2.14
Dissolved oxygen	3.37	2.05	1.69	2.59
Ammonia nitrogen	1.1	0.15	0.30	0.34
Total suspended solids	18.8	4.64	3.30	3.60
Nitrate nitrogen	0.0506	0.0643	<0.1	0.0989
Total organic nitrogen	<0.50	0.85	1	0.66
Total phosphorus	0.123	0.162	0.101	0.199
Oil and grease	1.33	2.38	0.870	<2.00
Total residual chlorine	0.00	0.00	0.00	0.00
Total dissolved solids	668	668	648	696
Sulfate	26.9	25.7	20.9	20.9
Chloride	296	237	263	267
Fluoride	0.402	0.460	0.422	0.562
Total alkalinity (mg/L as CaCO3)	282	305	277	287.00
Temperature (°F)	78.4	78.9	82.0	84.0
pH (standard units)	8.4	8.1	7.2	9.0

* results in mg/L unless otherwise noted

mg/L - milligram per Liter

Table 2					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aluminum, total	31.3	34.9	37.1	43.6	2.5
Antimony, total	<5.00	<5.00	<5.00	<5.00	5
Arsenic, total	8.69	8.10	9.10	9.96	0.5
Barium, total	318	345	385	385	3
Beryllium, total	<5.00	<5.00	<5.00	<5.00	0.5
Cadmium, total	<2.00	<5.00	<5.00	<2.00	1
Chromium, total	0.709	0.572	0.545	1.22	3
Chromium, hexavalent	<0.5	<0.5	<0.5	<0.5	3
Chromium, trivalent	1	1	1	1	N/A
Copper, total	5.67	0.413	0.679	0.351	2
Cyanide, available	<2.00	<2.00	<2.00	<2.00	15
Lead, total	0.258	<2.00	<2.00	<2.00	0.5
Mercury, total	0.00061	0.00085	<0.0005	<0.0005	0.005/0.0005
Nickel, total	3.12	2.81	3.66	3.79	2
Selenium, total	<2.00	<2.00	<2.00	<2.00	5
Silver, total	<2.00	<2.00	<2.00	<2.00	0.5
Thallium, total	<2.00	<2.00	<2.00	<2.00	0.5
Zinc, total	17.9	12.0	11.4	7.08	5

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 3					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Acrylonitrile					
Anthracene					
Benzene	<5.0	<5.0	<5.0	<5.0	10
Benzidine					
Benzo(a)anthracene					
Benzo(a)pyrene					
Bis(2-chloroethyl)ether					
Bis(2-ethylhexyl)phthalate					
Bromodichloromethane [Dibromochloromethane]					
Bromoform					
Carbon tetrachloride					
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	10
Chlorodibromomethane					
Chloroform	<5.0	<5.0	<5.0	<5.0	10
Chrysene					
m-Cresol [3-Methylphenol]					
o-Cresol [2-Methylphenol]					
p-Cresol [4-Methylphenol]					
1,2-Dibromoethane					
m-Dichlorobenzene [1,3-Dichlorobenzene]					
o-Dichlorobenzene [1,2-Dichlorobenzene]					
p-Dichlorobenzene [1,4-Dichlorobenzene]					
3,3'-Dichlorobenzidine					
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	10
1,1-Dichloroethene [1,1-Dichloroethylene]					

Table 3 Continued	
Dichloromethane [Methylene chloride]	
1,2-Dichloropropane	
1,3-Dichloropropene [1,3-Dichloropropylene]	
2,4-Dimethylphenol	
Di-n-Butyl phthalate	
Ethylbenzene	
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Methyl ethyl ketone	
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitroso-di-n-butylamine	
Nonylphenol	
Pentachlorobenzene	
Pentachlorophenol	
Phenanthrene	
Polychlorinated biphenyls (PCBs)	

Table 3 Continued					
Pyridine					
1,2,4,5-Tetrachlorobenzene					
1,1,2,2-Tetrachloroethane					
Tetrachloroethene [Tetrachloroethylene]	<5.0	<5.0	<5.0	<5.0	10
Toluene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
Trichloroethene [Trichloroethylene]	<5.0	<5.0	<5.0	<5.0	10
2,4,5-Trichlorophenol					
TTHM (Total trihalomethanes)					
Vinyl chloride	<2.0	<2.0	<2.0	<2.0	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 6						
	Believed Present (YES or NO)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	-	Grab	Grab	Grab	Grab	-
Sample Date	-	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutants**						
Bromide	NO					
Color (PCU)	NO					
Nitrate-Nitrite (as N)	YES	50.6	64.3	<200	98.9	-
Sulfide (as S)	NO					
Sulfite (as SO3)	NO					
Surfactants	NO					
Boron, total	YES	90.3	84.4	118	183	20
Cobalt, total	NO					
Iron, total	YES	919	1,120	1,100	1,170	7
Magnesium, total	YES	23,200	20,600	21,400	22,600	20
Manganese, total	YES	337	482	519	567	0.5
Molybdenum, total	YES	4.74	4.05	3.50	2.73	1
Tin, total	NO					
Titanium, total	NO					

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

** results in ug/L unless otherwise noted

ug/L - micrograms per Liter

Table 13					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aniline	<5.00	<5.00	<5.00	<5.00	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

August 8, 2024

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

RE: Response to Notice of Deficiency dated July 31, 2024
Application for Proposed Permit No.: WQ0005463000 (EPA I.D. No. TX0146391)
Name: The Dow Chemical Company (CN600356976)
Site Name: Dow Chemical La Porte Site (RN102414232)
Type of Application: NEW

VIA EMAIL

Dear Ms. Michael:

We have received your letter dated July 31, 2024. Below are Dow's responses to your comments. TCEQ comments are shown in **BOLD** with Dow's responses in *ITALICS*.

 # 1. Item 1H, application fee on page 2 of the administrative report 1.0: The cover letter and the application indicates the application fee for $350.00 is paid via Check or money order No.: 2200702423. However, we are unable to locate this payment. Please submit payment of $350.00 to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, please email a copy of the check or any proof of payment along with the response.

Dow submitted the $350 payment on July 15, 2024 via FedEx 777393225601 (check number 2200702423). We have included a copy of the check as Attachment 1 and FedEx Proof of Delivery Email as Attachment 2 to this email.

 # 2. Thank you for submitting the proposed Industrial Wastewater Permit Application. However, the application has been submitted on an outdated form. According to TCEQ policy, outdated versions of the application forms cannot be used. Please resubmit all pages of the administrative report on the most current version of TCEQ form number TCEQ-10053 (01/08/2024).

Dow has transferred the application information from the outdated forms to the new forms for both the Administrative Report (Attachment 3) and the Technical Report (Attachment 4) as requested and attached these new versions to this email. Dow has also prepared the entire permit application packet with all attachments to the new administrative and technical report and has included it as Attachment 5 to this email.

 # 3. Item 1B, affected landowners mailing labels on page 10 of the administrative report: Thank you for the 4-sets of mailing labels. Please email the labels in Avery 5160 label format (3 columns across, 10 columns down) according to the mailing list. To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included with the list, no punctuation.

Dow has included the mailing labels in Avery 5160 label format (3 columns across, 10 columns down) as Attachment 6 to this email. Per your request, the addresses are evenly spaced so that each address prints on one label and we have removed all other information from the forms including unnecessary punctuation.

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

APPLICATION. The Dow Chemical Company, 2030 Dow Center, Midland, Texas 78674, which owns a groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005463000 (EPA I.D. No. TX0146391) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 10,000 gallons per day. The facility will be located at 550 Independence Parkway South, in the city of La Porte, in Harris County, Texas 77571. The discharge route will be from the plant site to (Pending RWA). TCEQ received this application on July 24, ~~2025~~ 2024. The permit application will be available for viewing and copying at La Porte Branch Library, Reference Desk, 600 South Broadway, La Porte, 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=-95.080277,29.710555&level=18 Further information may also be obtained from The Dow Chemical Company at the address stated above or by calling Ms. Brandi B. McCoy, Texas Regional Water Manager, at 979-238-0636.

Dow has reviewed the above language and asks that the date TCEQ received this application be corrected from July 24, 2025 to July 24, 2024. Dow understands that "RWA" is Receiving Water Assessment and that the discharge route will be updated by the TCEQ and replace the (Pending RWA) language with the actual discharge route before the NORI is issued.

 # 5. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to

this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Dow is providing the translated Spanish language NORI in Microsoft Word format as Attachment 7 to this email which includes the above-mentioned changes to the NORI and the (Pending RWA) was left in this version as well for updating once the actual discharge route is received from TCEQ assessment team. Dow can provided a revised Spanish NORI once this is communicated.

Thank you for your continued help in processing the above referenced New Permit application. Please feel free to contact me at 979-238-0636 or by email at bbmccoy@dow.com.

Sincerely,

Brandi B. McCoy

Brandi McCoy
Texas Regional Water Manager
The Dow Chemical Company

Attachments:

Attachment 1. Proof of Payment (Dow Check)
Attachment 2. FedEx Proof of Delivery (payment)
Attachment 3. Administrative Report form – updated signed version
Attachment 4. Technical Report form - updated signed version
Attachment 5. Entire Permit Application - updated signed version
Attachment 6. Landowner Mailing Labels
Attachment 7. Spanish NORI in Microsoft Word format – DRAFT Pending RWA

Table of Contents

Industrial Administrative Report 1.0	Admin Report
Industrial Technical Report 1.0	Tech Report
TCEQ Plain Language Summary Form	AR 1.0-9.f
TCEQ Public Involvement Plan Form	AR 1.0-9.g
TCEQ Core Data Form	AR 1.0-4.a
USGS Topographic Map	AR 1.0-11.b
Adjacent Properties Downstream of Outfalls Map	AR 1.1-1.a
Adjacent Landowner Mailing Labels and Cross-Reference List	AR 1.1-1.c
Photographs of Outfalls and Outfall Photo Location Map	AR 1.1-2
TCEQ Supplemental Permit Information Form	AR SPIF
Permit Application Narrative Discussion	TR 1.0-1.a
Facility Map	TR 1.0-1.d
Water Balance Diagram	TR 1.0-2.b
Contract Laboratory Information	TR WK2-1.c
Worksheet 2.0 Data Tables	TR WK2-3.2

INDUSTRIAL 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: The Dow Chemical Company (Dow)

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

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

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

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

Applicant Name: The Dow Chemical Company (Dow)

Permit No.: WQ000Click to enter text.

EPA ID No.: TXD000017756

Expiration Date: N/A

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☐ Active ☒ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☒ New

☐ Renewal with changes ☐ Renewal without changes

☐ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Click to enter text.

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

g. Application Fee

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

h. Payment Information

Mailed

Check or money order No.: 2200702423

Check or money order amt.: $350.00

Named printed on check or money order: Texas Commission on Environmental Quality

Epay

Voucher number: N/A

Copy of voucher attachment: N/A

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600356976

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: The Dow Chemical Company

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: Ms. Full Name (Last/First Name): Sharon Hulgan

Title: Operations Director Credential: Click to enter text.

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: AR 1.0-4.a

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.com

b. ☒ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Gary Moore

Title: EH&S Delivery Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 550 Independence Parkway South City/State/Zip: La Porte, TX 77571

Phone No: 713.301.4407 Email: gmoore3@dow.com

Attachment: Click to enter text.

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

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

a. Prefix: Mr. Full Name (Last/First Name): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.com

b. Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.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): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.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): Donnie Belote

Title: Dow Remediation Leader Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122 City/State/Zip: Freeport, TX 77541

Phone No: 979-238-5568 Email: DBelote@dow.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Mailing Address: 332 SH 332 East City/State/Zip: Lake Jackson, TX 77566

Phone No: 979.238.0636 Email: bbmccoy@dow.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: bbmccoy@dow.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 332 SH 332 East

City/State/Zip Code: Lake Jackson, TX 77566

c. Contact in the Notice

Prefix: Ms. Full Name (Last/First Name): Brandi B. McCoy

Title: Texas Regional Water Manager Credential: Click to enter text.

Organization Name: The Dow Chemical Company

Phone No: 979.238.0636 Email: bbmccoy@dow.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: Harris County Public Library; La Porte Branch Library Location within the building: Reference

Physical Address of Building: 600 South Broadway St., La Porte, TX 77571

City: La Porte 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. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: AR 1.0-9.f

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: AR 1.0-9.g

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN102414232

Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): The Dow Chemical Company, La Porte Site

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

☐ Yes ☐ No ☒ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685 City/State/Zip: La Porte, TX 77572

Phone No: (281) 228-2238 Email: Click to enter text.

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

f. Owner of land where treatment facility is or will be: Click to enter text.

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

or Organization Name: The Dow Chemical Company

Mailing Address: P.O. Box 685 City/State/Zip: La Porte, TX 77572

Phone No: (281) 228-2238 Email: Click to enter text.

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

☐ Yes ☒ No

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

☒ One-mile radius

☒ Applicant's property boundaries

☒ Labeled point(s) of discharge

☐ Effluent disposal site boundaries

☐ Sewage sludge disposal site

☒ Three-miles downstream information

☒ Treatment facility boundaries

☒ Highlighted discharge route(s)

☐ All wastewater ponds

☐ New and future construction

Attachment: AR 1.0-11.b

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: Proposed Outfall 001 will be approximately located at coordinates 29042'35"N, 95004'35"W

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

☐ Yes ☒ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: The discharge route will be from the plant site to (new proposed) Outfall 001 to an unnamed ditch, thence to a tidal ditch, thence to San Jacinto Bay. See Attachment TR 1.0-1.a, Section 3 for additional information.

f. City nearest the outfall(s): La Porte

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

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: Authorized ORS discharges already occurring under current LPO TPDES permit WQ0000663000 through existing Outfall 001.

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

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

☐ Yes No or New Permit ☐

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: Laura Dickson

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ000Click to enter text.

Applicant Name: The Dow Chemical Company

Certification: I, Sharon Hulgan, 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): Sharon Hulgan

Signatory title: Operations Director

Signature: Sharon D Hulgan (Use blue ink) Date: August 7, 2024

Subscribed and Sworn to before me by the said _____

on this 7th day of August, 2024.

My commission expires on the 27th day of October, 2027.

Carla M. Perez
Notary Public

Harris
County, Texas

(SEAL)

CARLA M. PEREZ
Notary Public, State of Texas
Comm. Expires 10-27-2027
Notary ID 124995461

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☒ The applicant's property boundaries.

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

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

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

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

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

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

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

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

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

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

Attachment: AR 1.1-1.a

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

☐ Readable/Writeable CD ☒ Four sets of labels

Attachment: AR 1.1-1.c

d. Provide the source of the landowners' names and mailing addresses: Harris County

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

☐ Yes ☒ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: AR 1.1-2

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: AR SPIF

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ000Click to enter text.

1. Check or Money Order Number: 2200702423
2. Check or Money Order Amount: $350.00
3. Date of Check or Money Order: July 3, 2024
4. Name on Check or Money Order: Texas Commission on Environmental Quality
5. APPLICATION INFORMATION

   Name of Project or Site: The Dow Chemical Company, La Porte Site, ORS System

   Physical Address of Project or Site: 550 Independence Parkway South, LaPorte, Texas 77571

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

☒ Plain Language Summary

INDUSTRIAL 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).

See Attachment TR 1.0-1.a, Section 1 (Site Background and Description of Business Activities) for a description of the general nature of the business and type(s) of industrial and commercial activities.

Additional permit application narrative sections of Attachment TR 1.0-1.a include:

Section 2 - Proposed Site Activities

Section 3 – Proposed Outfall Description

Section 4 - Permit Application Sampling

Section 5 – Proposed Outfall 001 Permit Provisions

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

See Attachment TR 1.0-1.a, Section 2

[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
None	None	None

Attachment: N/A

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

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

Attachment: TR 1.0-1.d

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: FEMA Flood Study – Harris County

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: Click to enter text.

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

☐ Yes ☒ No ☐ N/A (renewal only)

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

☐ Yes ☐ No

If **yes**, provide the permit number: Click to enter text.

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

Item 2. Treatment System (Instructions, Page 40)

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

See Attachment TR 1.0-1.a, Section 2.1

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: TR 1.0-2.b

Item 3. Impoundments (Instructions, Page 40)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

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

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

Impoundment Information

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

Attachment: Click to enter text.

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

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

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	29°42'35''	95°04'35''

Outfall Location Description

Outfall No.	Location Description
001	Immediately adjacent to the location of current Outfall 001 (TPDES permit WQ0000663000) where the outlet pipe for final discharge of the wastewater treatment plant enters the un-named ditch; thence to San Jacinto Bay in Segment 2427 of the Bays and Estuaries.

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

Outfall No.	Description of sampling point
001	At the outlet pipe for final discharge of the ORS treatment unit enters the un-named ditch.

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	N/A	N/A	0.01	0.08	TBD

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Orifice 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)
001	Y	N	N	Variable	Variable	12

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Groundwater Organics Removal System	0.08	100

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

Attachment: Click to enter text.

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

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

Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☒ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: 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.
N/A	

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

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

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: N/A

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

☐ Yes ☒ No

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

Attachment: N/A

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

☐ Yes ☒ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. Click to enter text.

3. Cooling water is/will be obtained from a reclaimed water source?

   ☐ Yes ☐ No

   If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

   ☐ Yes ☐ No

   If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

   ☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

   ☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

   ☐ Yes ☐ No

   If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

   ☐ Yes ☐ No

   If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

☐ Yes ☐ No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I – New facility subject to 40 CFR Part 125, Subpart I

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

☐ Track I – AIF greater than 10 MGD

- Attach information required by *40 CFR § 125.86(b)*.

☐ Track II

- Attach information required by *40 CFR § 125.86(c)*.

Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

☐ Track I – Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

☐ Track II – Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☐ Yes ☒ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Click to enter text.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Sharon Hulgan

Title: Operations Director

Signature: Sharon D Hulgan

Date: August 7, 2024

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

☐ Yes ☒ No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

40 CFR Effluent Guideline

Industry	40 CFR Part
N/A	

Item 2. Production/Process Data (Instructions, Page 54)

NOTE: For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines – 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
N/A			

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			

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

See Attachment TR 1.0-2.b

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
N/A			

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): 5/7/24 – 5/28/24

b. ☒ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** TR WK2-1.c

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:** N/A

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

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.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,2-Dichloroethane					10
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
[Trichloroethylene]					
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10
Vinyl chloride					10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. **Tributyltin**

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

☐ Yes ☒ No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: N/A **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.

☒ N/A

Table 5 for Outfall No.: Click to enter text. **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 **is required** for all **external outfalls**.

Table 6 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one): ☐ Composite ☐ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

☒ N/A

Table 7 for Applicable Industrial Categories

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☐ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	☐ Yes	☐ Yes	☐ Yes	No
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)**
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.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- ☐ hexachlorophene (HCP) CASRN 70-30-4
- ☒ None of the above

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

☐ Yes ☒ No

Description: Click to enter text.

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

☒ Yes ☐ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐ Yes ☒ No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: TR WK2-3.2; also see Section 4 of Attachment TR 1.0-1.a for sampling discussion for Outfall 001 **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☒ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☒ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☐ Yes ☒ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: Unnamed

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☒ Man-Made Channel or Ditch

☐ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☒ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☒ personal observation

☒ historical observation by adjacent landowner(s)

☐ other, specify: Click to enter text.

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: San Jacinto Bay in Segment 2427

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: From unnamed ditch to tidal ditch then to San Jacinto Bay of Segment 2427 of the Bays and Estuaries.

f. General observations of the water body during normal dry weather conditions: Unnamed ditch – clear with slight brown tint.

Date and time of observation: March 6, 2024; 4:37 PM.

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☐ oil field activities
☐ agricultural runoff
☒ upstream discharges
☒ urban runoff
☐ septic tanks
☒ other, specify: Industrial and commercial activities

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: None

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

ADMINISTRATIVE REPORT
ATTACHMENTS

AR 1.0-9.f

(TCEQ Plain Language Summary Form)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

The Dow Chemical Company (Dow) (CN600356976), operates the Dow La Porte site (RN102414232) groundwater organic removal system (ORS) at a former industrial chemical manufacturing facility. The site is located at 550 Independence Parkway South, in La Porte, Harris County, Texas 77571. The Dow Chemical Company, La Porte Site, formerly manufactured specialty chemicals. Dow ceased chemical manufacturing operations at the La Porte site in 2023. This application requests an individual TPDES discharge permit for coverage of discharge from the existing groundwater recovery and treatment system owned and operated by Dow. Discharges from the groundwater recovery and treatment system are currently permitted under the Dow La Porte site current TPDES permit number WQ0000663000. The existing TPDES will be transferred or terminated in conjunction with issuance of the new TPDES permit. Dow proposes that new discharge point associated with this new permit be identified as Outfall 001 (proposed). The discharge from proposed Outfall 001 will be treated groundwater from the Dow groundwater ORS.

Discharges from proposed Outfall 001 are proposed to be monitored for pH, aniline, benzene, chlorobenzene and trichloroethene. Discharge frequency and rate requested for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day. Specific testing requirements were completed as part of this renewal application and are included in the Industrial Wastewater Application Technical report, Worksheet 2.0. Groundwater from the recovery system will be treated for organics removal through the groundwater treatment unit using a carbon filtration system before being discharged to proposed Outfall 001.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/AGUAS PLUVIALES**

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Dow Chemical Company (Dow) (CN600356976), opera el sistema de eliminación orgánica de aguas subterráneas (ORS, por sus siglas en inglés) del sitio Dow La Porte (RN102414232) en una antigua instalación de fabricación de productos químicos industriales. El sitio está ubicado en la 550 Independence Parkway South, La Porte, Harris County, Texas 77571. Dow Chemical Company, sitio de La Porte, anteriormente fabricaba productos químicos especiales. Dow cesó las operaciones de fabricación de productos químicos en el sitio de La Porte en 2023. Esta aplicación solicita un permiso de descarga TPDES individual para cubrir la descarga del sistema existente de recuperación y tratamiento de aguas subterráneas propiedad de Dow y operado por ella. Las descargas del sistema de recuperación y tratamiento de aguas subterráneas están actualmente permitidas según el permiso TPDES actual del sitio de Dow La Porte número WQ0000663000. El TPDES existente se transferirá o cancelará junto con la emisión del nuevo permiso TPDES. Dow propone que el nuevo punto de descarga asociado con este nuevo permiso se identifique como Desagüe 001 (propuesto). La descarga del Desagüe 001 propuesto será agua subterránea tratada del ORS de agua subterránea de Dow.

Se propone monitorear el pH, anilina, benceno, clorobenceno y tricloroeteno de las descargas del Desagüe 001 propuesto. La frecuencia y tasa de descarga solicitadas para el Desagüe Propuesto 001 serán intermitentes (por lotes) y variables, y no excederán la capacidad máxima de diseño del sistema de recuperación de 80,000 galones por día. Se completaron requisitos de prueba específicos como parte de esta solicitud de renovación y se incluyen en el Informe Técnico de Aplicación de Aguas Residuales Industriales, Hoja de Trabajo 2.0. El agua subterránea del sistema de recuperación será tratada para eliminar la materia orgánica a través de la unidad de tratamiento de agua subterránea utilizando un sistema de filtración de carbón antes de descargarse al Desagüe 001 propuesto.

AR 1.0-9.g

(TCEQ Public Involvement Plan Form)

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.

The source of industrial wastewater to be authorized by the LPO new TPDES permit is currently authorized under LPO TPDES permit number WQ0000663000. The current permit was not considered to have significant public interest; therefore, the new permit application is not expected to either.

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)

AR 1.0-4.a

(TCEQ Core Data Form)

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600356976		**RN 102414232**

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:*

The Dow Chemical Company

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0001216206	13812851288	381285128	08-497-05

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:

2030 Dow Center

City	Midland	**State**	MI	**ZIP**	48674	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	fhubehs@dow.com

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(281) 228-2238		(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.)*

Dow Chemical La Porte Site

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	550 Independence Parkway South							
	City	La Porte	**State**	TX	**ZIP**	77571	**ZIP + 4**	9768
24. County	Harris							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	42	38	95	04	49

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)
		562910	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Groundwater Remediation

34. Mailing Address:	**Attention: Ms. Brandi McCoy**							
	P.O Box 685							
	City	**La Porte**	**State**	**TX**	**ZIP**	**77572**	**ZIP + 4**	
35. E-Mail Address:	**fhubehs@dow.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 228-2238		**(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
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	Permit No. To Be Determined			

SECTION IV: Preparer Information

40. Name:	Brandi B. McCoy	41. Title:	Texas Regional Water Manager

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(979) 238-0636		(979) 235-8117	bbmccoy@dow.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:	The Dow Chemical Company	Job Title:	Operations Manager	
Name *(In Print)*:	Sharon Hulgan		Phone:	(281) 228- 2238
Signature:	Sharon D Hulgan		Date:	August 7, 2024

AR 1.0-11.b

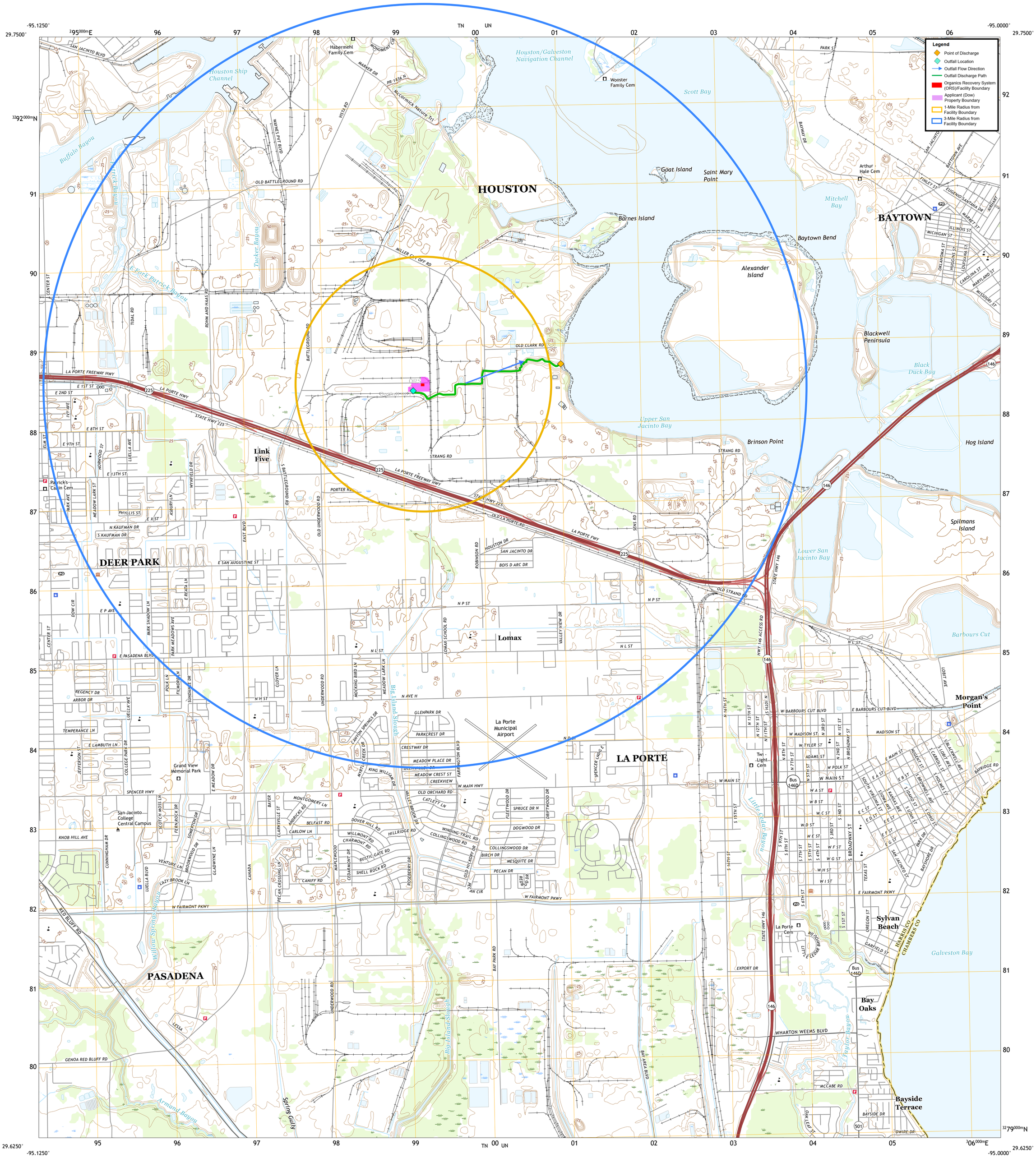
(USGS Topographic Map)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

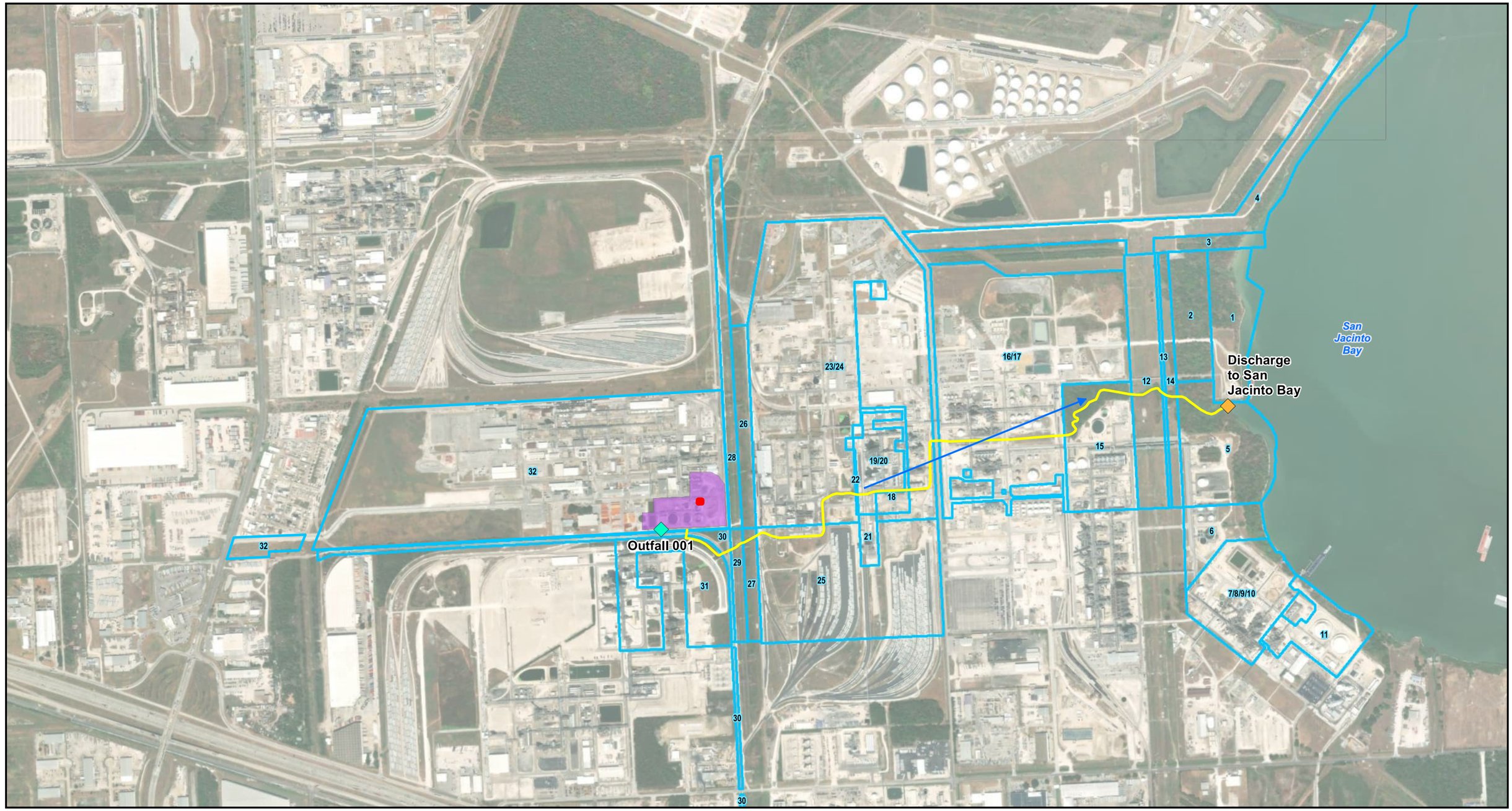
The National Map US Topo

LA PORTE QUADRANGLE
TEXAS
7.5-MINUTE SERIES


-95.1250°
-95.0000°
29.7500°
29.6250°
295000mE
306000mE
3292000mN
3279000mN
TN UN
Legend
Point of Discharge
Outfall Location
Outfall Flow Direction
Outfall Discharge Path
Organics Recovery System (ORS)/Facility Boundary
Applicant (Dow) Property Boundary
1-Mile Radius from Facility Boundary
3-Mile Radius from Facility Boundary
HOUSTON
DEER PARK
PASADENA
BAYTOWN
LA PORTE
Lomax
Link Five
Houston Ship Channel
Houston/Galveston Navigation Channel
Scott Bay
Mitchell Bay
Upper San Jacinto Bay
Lower San Jacinto Bay
Galveston Bay
Barbours Cut
Goat Island
Saint Mary Point
Barnes Island
Baytown Bend
Alexander Island
Blackwell Peninsula
Black Duck Bay
Brinson Point
Hog Island
Spilmans Island
Morgan's Point
Sylvan Beach
Bay Oaks
Bayside Terrace
La Porte Municipal Airport
Habermehl Family Cem
Wooster Family Cem
Arthur Hale Cem
Patrick's Cabin Cem
Grand View Memorial Park
San Jacinto College Central Campus
Twi-Light Cem
La Porte Cem
Buffalo Bayou
Tucker Bayou
E Fork Patrick Bayou
Big Island Slough
Little Cedar Bayou
Taylor Bayou
Willow Springs Bayou
Armand Bayou
Spring Gully
SAN JACINTO BLVD
LA PORTE FREEWAY HWY
LA PORTE HWY
STATE HWY 225
OLD BATTLEGROUND RD
MILLER CUT OFF RD
OLD CLARK RD
STRANG RD
OLD LA PORTE RD
LA PORTE FWY
SPENCER HWY
W MAIN HWY
W FAIRMONT PKWY
E FAIRMONT PKWY
WHARTON WEEMS BLVD
RED BLUFF RD
GENOA RED BLUFF RD
MCCABE RD
BAYSIDE DR
EXPORT DR
OLD STRAND RD
E BARBOURS CUT BLVD
W BARBOURS CUT BLVD
MADISON ST
W MAIN ST
E MAIN ST
PARK ST
BAYWAY DR
BAYTOWN AVE
FINLEY ST
EUGENIO SANTANA DR
MARKET ST
ILLINOIS ST
MICHIGAN ST
OKLAHOMA ST
HIGGINS ST
LOUISIANA ST
CAROLINA ST
MARYLAND ST
MISSOURI ST
BAYRIDGE RD
LOBIT AVE
HWY 146 ACCESS RD
STATE HWY 146
OLD UNDERWOOD RD
UNDERWOOD RD
BAY PARK RD
BAY AREA BLVD
ROBINSON RD
LOMAX SCHOOL RD
VALLEY VIEW DR
SENS RD
HOUSTON DR
SAN JACINTO DR
BOIS D ARC DR
BATTLEGROUND RD
S BATTLEGROUND RD
EAST BLVD
WAYNES PVT BLVD
VISTA RD
MARKER DR
MONUMENT CIR
PR 1836 N
McCormick Nature Trl
ROHM AND HAAS RD
CENTER ST
TIDAL RD
LA PORTE
Bus 146D
Bus 146D
Bus 146D

AR 1.1-1.a

(Adjacent Properties Downstream of Outfalls Map)



Legend

- Point of Discharge
- Outfall Location
- Outfall Flow Direction
- Outfall Discharge Path
- Facility Boundary
- Applicant (Dow) Property Boundary
- Adjacent Properties

N

0 1,000 2,000

Feet



Attachment AR1.1-1.a

Adjacent Properties Downstream of Outfalls

The Dow Chemical Company

LaPorte Site

Imagery Date: 9/1/2023

Drawing Date: 4/26/2024

Drawn By: Jacobs

\\DC1VS01\GISPROJ\D\DOWCHEMICALS\LAPORTE\MAPFILES\2023\ADJPROP_WTPFAC.MXD GTWIGG 4/26/2024 1:32:05 PM

AR 1.1-1.c

(Adjacent Landowner Mailing Labels and Cross-Reference List)

Attachment AR 1.1-1.c
Adjacent Landowner Cross-Reference List
Dow Chemical - La Porte Site
TPDES Permit Number WQ000-NEW

Map ID (Reference Attachment AR 1.1-1.a)	OWNER NAME	OWNER ADDRESS
31	BRASKEM AMERICA INC	% TAX DEPT, 1735 MARKET ST, STE LL, PHILADELPHIA, PA 19103-7528
26, 27, 28, 29	CENTERPOINT ENERGY HOU ELE	PROPERTY TAX DEPT, 38TH FLR, PO BOX 1475, HOUSTON, TX 77251-1475
14	COASTAL INDUSTRIAL WATER	1200 SMITH ST, STE 2260, HOUSTON, TX 77002-4500
18, 19, 22, 24, 25	EQUISTAR CHEMICALS LP	% PROPERTY TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
12	EXXON PIPELINE 00610	PO BOX 53, HOUSTON, TX 77001-0053
4	EXXON PIPELINE 00650	PO BOX 53, HOUSTON, TX 77001-0053
13	EXXON PIPELINE 00705	PO BOX 53, HOUSTON, TX 77001-0053
11, 16	LA PORTE METHANOL CO LP	PO BOX 3646, HOUSTON, TX 77253-3646
7	LINDE GAS INC	10 RIVERVIEW DR, DANBURY, CT 06810-6268
8	LINDE GAS INC	575 MOUNTAIN AVE, NEW PROVIDENCE, NJ 07974-2097
32	LUBRIZOL ADVANCED MATERIALS INC	600 INDEPENDENCE PKWY, LA PORTE, TX 77571
20, 21	LYB LA PORTE HYPERZONE LLC	% REAL ESTATE COUNSEL LYONDELL BASELL, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
9	LYONDELL BASELL ACETYLS LLC	% LYONDELL CHEMICAL CO, 1221 MCKINNEY ST, STE 300, HOUSTON, TX 77010-2036
2, 10, 17, 23	LYONDELLBASELL ACETYLS LLC	ATTN TAX DEPT, PO BOX 3646, HOUSTON, TX 77253-3646
5, 6, 15	OLEFINS JV LP	1221 MCKINNEY ST, HOUSTON, TX 77010-2011
3	OXY VINYLS LP	C/O TAX DEPT, PO BOX 27570, HOUSTON, TX 77227-7570
1	PORT OF HOUSTON AUTHORITY	111 EAST LOOP N, HOUSTON, TX 77029-4326
30	SOUTHERN PACIFIC RAILROAD COMPANY	UNION PACIFIC RAILROAD CO, 1400 DOUGLAS ST, STOP 1640, OMAHA, NE 68179-1001

BRASKEM AMERICA INC
TAX DEPT
1735 MARKET ST STE LL
PHILADELPHIA PA 19103-7528

CENTERPOINT ENERGY HOU ELE
PROPERTY TAX DEPT 38TH FLR
PO BOX 1475
HOUSTON TX 77251-1475

COASTAL INDUSTRIAL WATER
1200 SMITH ST STE 2260
HOUSTON TX 77002-4500

EQUISTAR CHEMICALS LP
PROPERTY TAX DEPT
PO BOX 3646
HOUSTON TX 77253-3646

EXXON PIPELINE 00610
PO BOX 53
HOUSTON TX 77001-0053

EXXON PIPELINE 00650
PO BOX 53
HOUSTON TX 77001-0053

EXXON PIPELINE 00705
PO BOX 53
HOUSTON TX 77001-0053

LA PORTE METHANOL CO LP
PO BOX 3646
HOUSTON TX 77253-3646

LINDE GAS INC
10 RIVERVIEW DR
DANBURY CT 06810-6268

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575 MOUNTAIN AVE
NEW PROVIDENCE NJ 07974-2097

LUBRIZOL ADVANCED MATERIALS INC
600 INDEPENDENCE PKWY
LA PORTE TX 77571

LYB LA PORTE HYPERZONE LLC
REAL ESTATE COUNSEL LYONDELL BASELL
1221 MCKINNEY STE 300
HOUSTON TX 77010-2036

LYONDELL BASELL ACETYLS LLC
LYONDELL CHEMICAL CO
1221 MCKINNEY ST STE 300
HOUSTON TX 77010-2036

LYONDELLBASELL ACETYLS LLC
ATTN TAX DEPT
PO BOX 3646
HOUSTON TX 77253-3646

OLEFINS JV LP
1221 MCKINNEY ST
HOUSTON TX 77010-2011

OXY VINYLS LP
CO TAX DEPT
PO BOX 27570
HOUSTON TX 77227-7570

PORT OF HOUSTON AUTHORITY
111 EAST LOOP N
HOUSTON TX 77029-4326

SOUTHERN PACIFIC RAILROAD COMPANY
UNION PACIFIC RAILROAD CO
1400 DOUGLAS ST STOP 1640
OMAHA NE 68179-1001

AR 1.1-2

(Photographs of Outfalls and

Outfall Photo Location Map)

Attachment AR 1.1-2
Photographs of Outfalls

Future Outfall 001 Picture 001-01

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing east.

Attachment AR 1.1-2
Photographs of Outfalls

Future Outfall 001 Picture 001-02

Effluent wastewater will flow out of the plant through future Outfall 001 to an unnamed county ditch into Segment 2427 of San Jacinto Bay of the Trinity-San Jacinto Estuary.



Note: Photographer is facing west, away from future Outfall 001.

AR SPIF

(TCEQ Supplemental Permit Information Form)

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: The Dow Chemical Company

   Permit No. WQ00 Click here to enter text EPA ID No. TXD000017756

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   550 Independence Parkway South, La Porte, Texas 77571

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: Donnie Belote

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Dow Remediation Leader

Mailing Address: 2301 N. Brazosport Blvd., Bldg B122

City, State, Zip Code: Freeport, TX 77541

Phone No.: 979-238-5568 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: DBelote@dow.com

2. List the county in which the facility is located: Harris
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.

Unnamed ditch to tidal ditch to San Jacinto Bay Segment 2427.

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. N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

   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

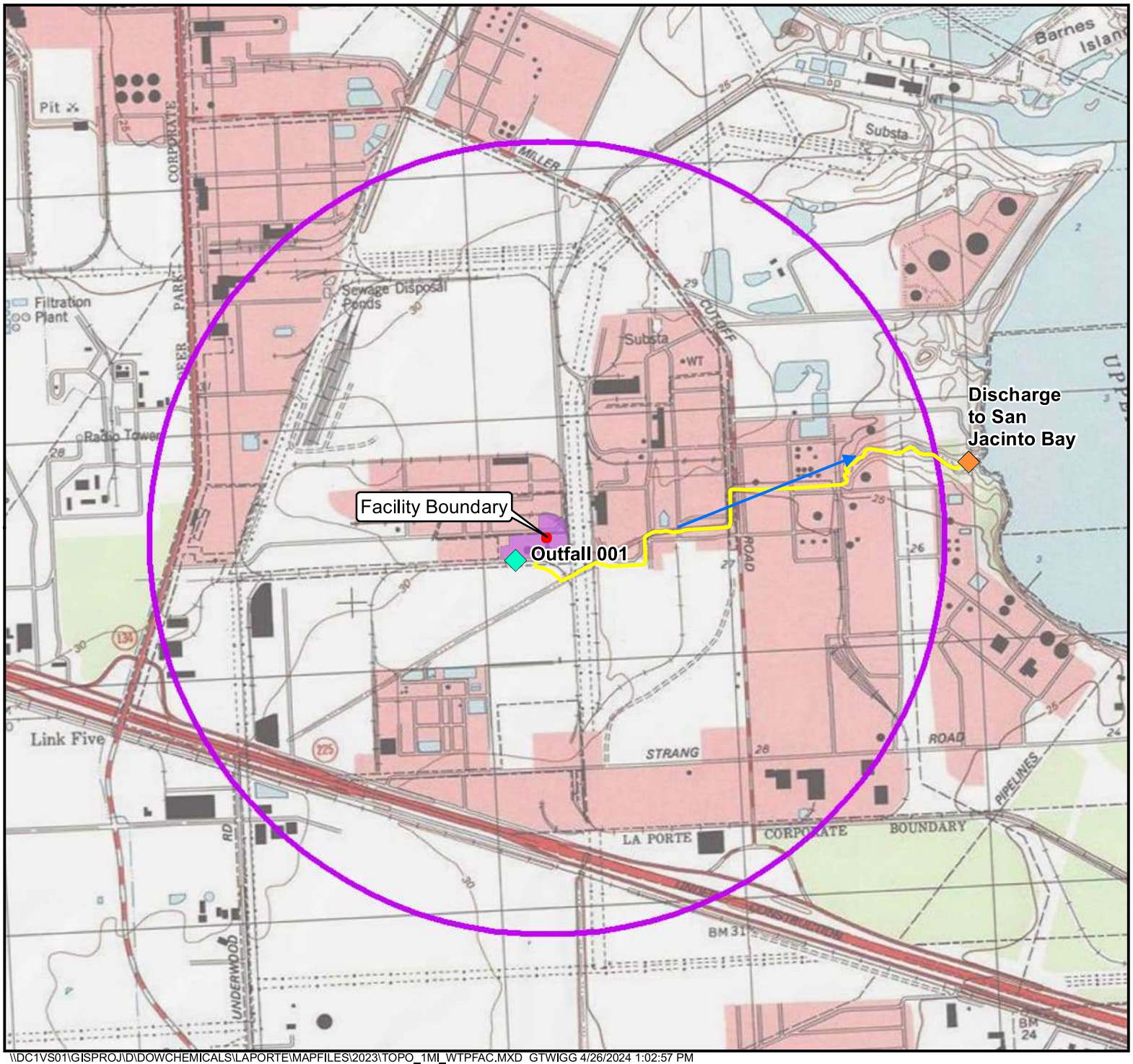
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

N/A –Only structures related to WWTP are present at the ORS site. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP.

4. Provide a brief history of the property, and name of the architect/builder, if known.

The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division. In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes business, (both located on the LPO site) to Illinois Tool Works, Inc. (now Johns Manville), and Lubrizol Corporation, respectively, and leased these portions of the site to Illinois Tool Works, Inc. and Lubrizol. On December 30, 2019, Dow sold the majority of the land and above-ground assets, such as the boiler and the cooling tower, to Lubrizol Corporation, but Dow continues to operate these assets through the end of 2024. Dow will retain ownership and operation of the groundwater organics recovery system (ORS) and the remediation ownership of groundwater liabilities. Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun and is expected to be complete by the end of 2025. Dow will provide wastewater services to Johns Manville and Lubrizol until the end of 2024, at which time Dow will cease WWTP operations and demo the WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be limited to discharge from the groundwater ORS. The ORS currently discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. However, Dow has prepared this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001, and will terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000 after termination of wastewater services.



\\DC1VS01\GISPROJ\D\DOWCHEMICALS\LAPORTE\MAPFILES\2023\TOPO_1MI_WTPFAC.MXD GTWIGG 4/26/2024 1:02:57 PM

TECHNICAL REPORT
ATTACHMENTS

TR 1.0-1.a

(Permit Application Narrative Discussion)

ATTACHMENT

TR 1.0-1.a

DOW CONFIDENTIAL- DO NOT SHARE WITHOUT PERMISSION

The Dow Chemical Company (Dow) has prepared this Texas Pollutant Discharge Elimination System (TPDES) new permit application for its existing groundwater recovery and treatment system at the La Porte Operations (LPO) site in La Porte, Harris County, Texas.

1. Site Background and Description of Business Activities

The LPO site has historically functioned as manufacturer of specialty chemicals (primary SIC code 2869). While Dow has ceased manufacturing operations at the site, historically the basic products manufactured by Dow included monomeric methylene diphenyldiisocyante and related pre-polymers

The LPO site was built in 1960 by the Carwin Company of North Haven, Connecticut. It was constructed to produce isocyanates which are used in the production of automobiles, boats, high performance athletic footwear, home insulation, appliances, clothing, ice chests, cosmetics, pet food, pharmaceuticals, toothbrushes, dyes, paints and vitamins. In 1962, the LPO site was purchased by the Upjohn Company and expanded for polyurethane production. Dow acquired the site in 1985 from Upjohn's worldwide Polymer Chemical Division.

In 2008, Dow sold its Trymer Foam business and Thermoplastics Polyurethanes (TPU) business, (both located on the LPO site) to Illinois Tool Works, Inc. (ITW) (now Johns Manville), and Lubrizol Corporation (Lubrizol), respectively, and leased these portions of the site to ITW and Lubrizol. Specifically, Dow and ITW entered into a Ground and Building Lease on July 9, 2008, and Dow and Lubrizol entered into a Ground Lease Agreement on December 13, 2008. Additionally, Asset Purchase Agreements were executed by and between Dow and ITW on July 9, 2008, and Dow and Lubrizol on December 14, 2008.

On December 30, 2019, Dow sold the majority of the land and above-ground assets, including the boiler and cooling tower, to Lubrizol, but Dow continues to operate these assets through the end of 2024, at which time Dow will turn over operation of these assets (along with other site services like nitrogen, air, and natural gas). Dow also retained ownership and operation of the wastewater treatment plant (WWTP). Dow will provide wastewater services to Johns Manville and Lubrizol until the end of its contractual obligation at the end 2024. At that time, Dow will cease operation of its site wastewater treatment plant (WWTP) and decommission it after all LPO site Notice of Registration (NOR) closures are complete.

Dow ceased chemical manufacturing operations in 2023 and decommissioning of manufacturing infrastructure has begun, with an expected completion by the end of 2025. Dow will maintain ownership and operation of the groundwater organics recovery system (ORS) at the LPO site and remediation ownership of ORS-associated groundwater liabilities. This new TPDES individual permit application is for continued TPDES coverage of treated groundwater discharges from the ORS (North American Industrial System Classification [NAICS] code 562910). There will be no other sources of discharge.

2. Proposed Site Activities

By the end of 2024, Dow will have ceased all manufacturing operations and operation of its WWTP. At that time, discharges from Dow-owned property at the LPO site requiring TPDES permitting will be

limited to discharge from the groundwater ORS. Currently, the ORS system discharges through TPDES permit WQ0000663000 Outfall 001 after treatment at the WWTP. The current TPDES allows the ORS effluent to be discharged directly to current Outfall 001 with no additional treatment.

In a February 23, 2024, email correspondence with the Texas Commission on Environmental Quality, Dow proposed to prepare this application for a new individual TPDES permit for coverage of Dow's groundwater ORS discharge with a new outfall, Proposed Outfall 001 and terminate or transfer to Lubrizol the existing TPDES permit WQ0000663000. This approach allows Dow to have a clean separation from Lubrizol after Dow exits industrial operations at the site. Dow notes the two permits could possibly overlap. TCEQ responded "If there does end up being an overlap (i.e., the existing permit it still active and in DOWs name when your new permit is issued), as long as there is no dual coverage (i.e., the same outfall being permitted by both authorizations), we see no issue with this path forward."

2.1 Groundwater ORS Operation Summary

The LPO groundwater remediation program is established in the LPO Resources Conservation and Recovery Act (RCRA) Hazardous Waste Permit No. 50253 (RCRA permit). Dow is required to recover subsurface ground water at various locations throughout the site in multiple groundwater zones (sand layers below surface). Groundwater is pumped from a network of recovery wells and a recovery trench to skid units before being sent to a holding tank. Groundwater is then pumped from the holding tank to the ORS treatment unit for organics removal using a carbon filtration system, before being discharged to proposed Outfall 001. Groundwater indicator parameters monitored in the Corrective Action Program, Table IIIA of the LPO RCRA permit include aniline, benzene, chlorobenzene and trichloroethene.

In accordance with Section XI.F.3.b and CP Table VII of the RCRA permit, groundwater monitoring occurs semiannually.

3. Proposed Outfall Description

Proposed Outfall 001 future discharges are described below. The discharge source for the outfall is described in Table 1.

Proposed Outfall 001

Proposed Outfall 001 will have a new outfall location (Latitude: 29 42' 35", Longitude: 95 04'35") but will follow the same discharge route as the current Outfall 001 to the receiving water, to include discharge to an unnamed ditch, thence to tidal ditch, thence to San Jacinto Bay of Segment 2427 of the Bays and Estuaries, which is approximately 1.2 miles from the discharge point for Outfall 001. Discharges from proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the ORS design maximum treatment capacity of 80,000 gallons per day.

Table 1. Outfall Description as Proposed

LPO Facility 2024 New TPDES Permit Application

Outfall	Description of Sources
001 (Proposed)	Intermittent (batch) and variable discharge of treated groundwater

4. Permit Application Sampling

Application sampling was conducted in accordance with TPDES Technical Report 1.0, Worksheet 2.0 for Proposed Outfall 001 and are representative of current ORS discharges.

Analytical results of required sampling for Proposed Outfall 001 are presented in Attachment TR WK2.0-3.2. Samples were analyzed using the minimum analytical limits (MALs) required in Technical Report 1.0.

Attachment TR WK2-2.c provides information on the laboratories used for analyzing data for completing this TPDES permit application.

5. Proposed Outfall 001 Permit Provisions

This section describes the proposed permit provisions for Proposed Outfall 001. Proposed Outfall 001 discharge will be intermittent (batch) comprised treated groundwater from the ORS.

Monitoring Frequency

In accordance with the LPO RCRA corrective action program, groundwater monitoring occurs semiannually. Dow proposes semi-annual monitoring for the proposed permit parameters in the TPDES permit to coincide with the semi-annual groundwater monitoring schedule.

Flow Monitoring

Flow will be continuously measured at Proposed Outfall 001, when discharging, using a flow meter. Discharge frequency and rate for Proposed Outfall 001 will be intermittent (batch) and variable, and not to exceed the recovery system design maximum capacity of 80,000 gallons per day.

pH

Monitoring of pH is proposed, as a grab sample at Proposed Outfall 001 with a minimum limit of 6.0 standard units (SU) and a maximum limit of 9.0 standard units (SU).

Indicator Parameters

Effluent monitoring for groundwater indicator parameters currently monitored in the Corrective Action Program of the LPO RCRA permit is proposed at Proposed Outfall 001. The proposed indicator parameters, along with proposed effluent limits are presented in the table below:

Parameter	Proposed BPJ Effluent Limit - Monthly Average (µg/L)	Proposed BPJ Effluent Limit - Daily Maximum (µg/L)
Aniline	N/A	160
Benzene	37	136
Chlorobenzene	15	28
Trichloroethene	21	54

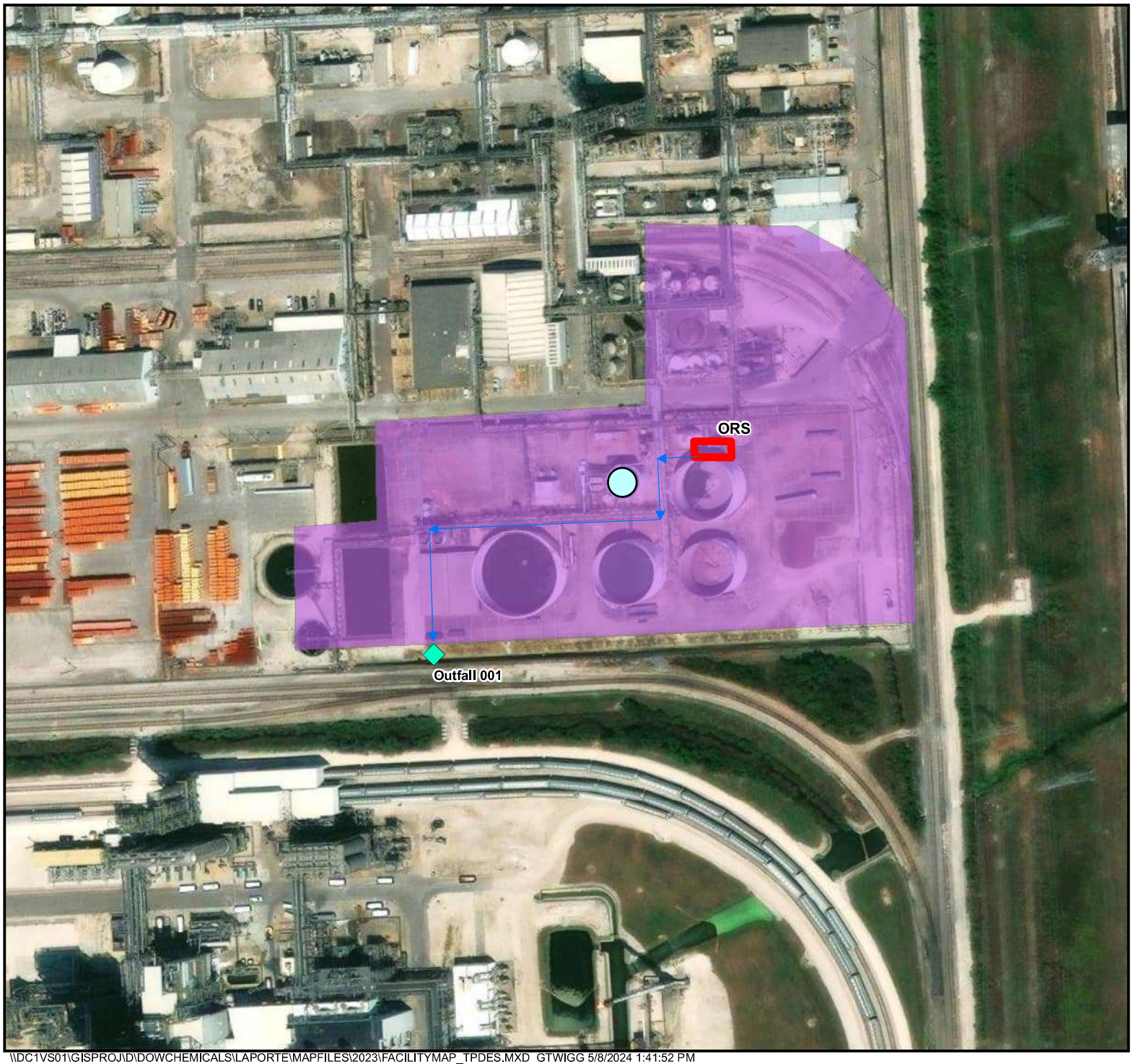
Dow is proposing Best Professional Judgement (BPJ) effluent limits for benzene, chlorobenzene and trichloroethene from as presented in the Fact Sheet from the current LPO TPDES permit No. WQ0000663000. Proposed aniline BPJ effluent limits use Texas Risk Reduction Program (TRRP) Tier 1 protective concentration levels (PCL) Class 3 residential groundwater PCL.

Summary of Outfall 001 Proposed Permit Provisions

Parameter	Proposed Effluent Limit - Monthly Average (µg/L)	Proposed Effluent Limit - Daily Maximum (µg/L)	Proposed Monitoring Frequency
Flow	N/A	N/A	1/6 months
pH	6.0 s.u.(min)	9.0 s.u. (max)	1/6 months
Aniline	N/A	160	1/6 months
Benzene	37	136	1/6 months
Chlorobenzene	15	28	1/6 months
Trichloroethene	21	54	1/6 months

TR 1.0-1.d

(Facility Map)





Legend

- Outfall Location
- Groundwater Holding Tank
- Discharge Route
- Organics Recovery System (ORS)/Carbon Filtration Unit
- Applicant (Dow) Property Boundary

0 100 200
Feet

Imagery Source:
ESRI World Imagery online mapping service, 9/1/2023

Attachment TR 1.0-1.d
Facility Map

The Dow Chemical Company
La Porte Site

N

DOW®

Drawing Date: 5/8/2024

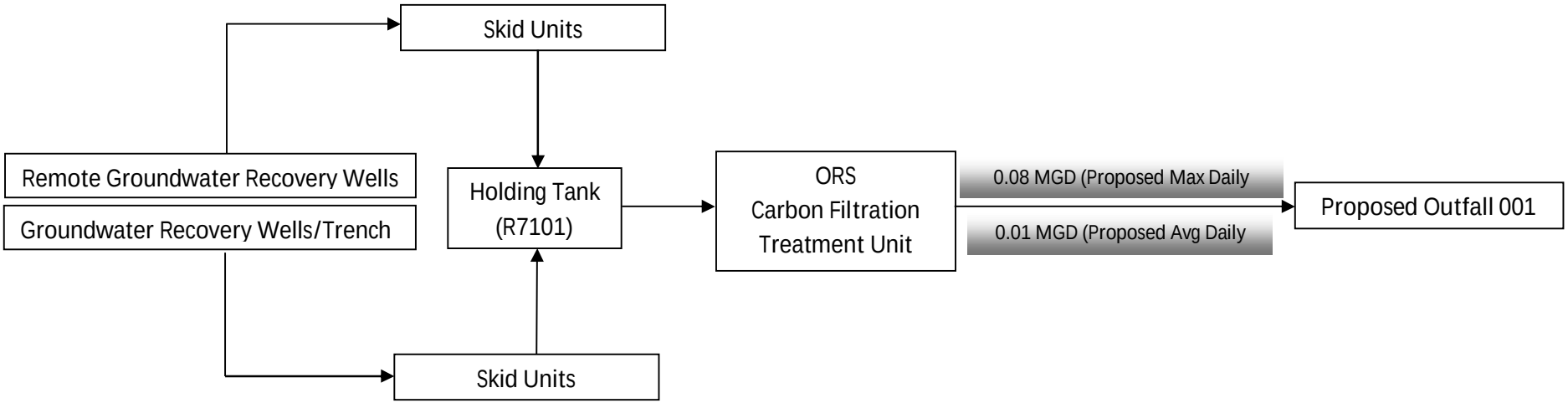
Drawn By: Jacobs

\\DC1VS01\GISPROJ\D\DOWCHEMICALS\LAPORTE\MAPFILES\2023\FACILITYMAP_TPDES.MXD GTWIGG 5/8/2024 1:41:52 PM

TR 1.0-2.b

(Water Balance Diagram)

ATTACHMENT TR 2.0-b
Non-Process Wastewater Flow Balance
Dow Chemical Company TPDES New Permit Application



TR WK2-1.c

(Contract Laboratory Information)

ATTACHMENT TR WK2-1.c

Contract Laboratory Information

Name: ALS Houston

Address: 10450 Stancliff Rd. Suite 210, Houston, TX 77099

Telephone: (281) 530-5656

Pollutants Analyzed

- Technical Report Worksheet 2.0 – Tables 1, 2, 3, 6 and 13 required analyses

TR WK2-3.2

(Worksheet 2.0 Data Tables)

ATTACHMENT TR WK2-3.2

OUTFALL 001 Pollutant Analysis Tables -Technical Report 1.0, Worksheet 2.0

3. Specific Testing Requirements

2024 TPDES New Permit Application

The Dow Chemical Company - La Porte Site

Table 1				
	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Sample Type	Grab	Grab	Grab	Grab
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024
Pollutant*				
Biological Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Carbonaceous Biochemical Oxygen Demand (5-day)	<2.00	<2.00	<2.00	<2.00
Chemical Oxygen Demand	<15.0	<15.0	<15.0	<15.0
Total organic carbon	1.95	2.43	1.85	2.14
Dissolved oxygen	3.37	2.05	1.69	2.59
Ammonia nitrogen	1.1	0.15	0.30	0.34
Total suspended solids	18.8	4.64	3.30	3.60
Nitrate nitrogen	0.0506	0.0643	<0.1	0.0989
Total organic nitrogen	<0.50	0.85	1	0.66
Total phosphorus	0.123	0.162	0.101	0.199
Oil and grease	1.33	2.38	0.870	<2.00
Total residual chlorine	0.00	0.00	0.00	0.00
Total dissolved solids	668	668	648	696
Sulfate	26.9	25.7	20.9	20.9
Chloride	296	237	263	267
Fluoride	0.402	0.460	0.422	0.562
Total alkalinity (mg/L as CaCO3)	282	305	277	287.00
Temperature (°F)	78.4	78.9	82.0	84.0
pH (standard units)	8.4	8.1	7.2	9.0

* results in mg/L unless otherwise noted

mg/L - milligram per Liter

Table 2					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aluminum, total	31.3	34.9	37.1	43.6	2.5
Antimony, total	<5.00	<5.00	<5.00	<5.00	5
Arsenic, total	8.69	8.10	9.10	9.96	0.5
Barium, total	318	345	385	385	3
Beryllium, total	<5.00	<5.00	<5.00	<5.00	0.5
Cadmium, total	<2.00	<5.00	<5.00	<2.00	1
Chromium, total	0.709	0.572	0.545	1.22	3
Chromium, hexavalent	<0.5	<0.5	<0.5	<0.5	3
Chromium, trivalent	1	1	1	1	N/A
Copper, total	5.67	0.413	0.679	0.351	2
Cyanide, available	<2.00	<2.00	<2.00	<2.00	15
Lead, total	0.258	<2.00	<2.00	<2.00	0.5
Mercury, total	0.00061	0.00085	<0.0005	<0.0005	0.005/0.0005
Nickel, total	3.12	2.81	3.66	3.79	2
Selenium, total	<2.00	<2.00	<2.00	<2.00	5
Silver, total	<2.00	<2.00	<2.00	<2.00	0.5
Thallium, total	<2.00	<2.00	<2.00	<2.00	0.5
Zinc, total	17.9	12.0	11.4	7.08	5

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 3					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Acrylonitrile					
Anthracene					
Benzene	<5.0	<5.0	<5.0	<5.0	10
Benzidine					
Benzo(a)anthracene					
Benzo(a)pyrene					
Bis(2-chloroethyl)ether					
Bis(2-ethylhexyl)phthalate					
Bromodichloromethane [Dibromochloromethane]					
Bromoform					
Carbon tetrachloride					
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	10
Chlorodibromomethane					
Chloroform	<5.0	<5.0	<5.0	<5.0	10
Chrysene					
m-Cresol [3-Methylphenol]					
o-Cresol [2-Methylphenol]					
p-Cresol [4-Methylphenol]					
1,2-Dibromoethane					
m-Dichlorobenzene [1,3-Dichlorobenzene]					
o-Dichlorobenzene [1,2-Dichlorobenzene]					
p-Dichlorobenzene [1,4-Dichlorobenzene]					
3,3'-Dichlorobenzidine					
1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	10
1,1-Dichloroethene [1,1-Dichloroethylene]					

Table 3 Continued	
Dichloromethane [Methylene chloride]	
1,2-Dichloropropane	
1,3-Dichloropropene [1,3-Dichloropropylene]	
2,4-Dimethylphenol	
Di-n-Butyl phthalate	
Ethylbenzene	
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Methyl ethyl ketone	
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitroso-di-n-butylamine	
Nonylphenol	
Pentachlorobenzene	
Pentachlorophenol	
Phenanthrene	
Polychlorinated biphenyls (PCBs)	

Table 3 Continued					
Pyridine					
1,2,4,5-Tetrachlorobenzene					
1,1,2,2-Tetrachloroethane					
Tetrachloroethene [Tetrachloroethylene]	<5.0	<5.0	<5.0	<5.0	10
Toluene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
Trichloroethene [Trichloroethylene]	<5.0	<5.0	<5.0	<5.0	10
2,4,5-Trichlorophenol					
TTHM (Total trihalomethanes)					
Vinyl chloride	<2.0	<2.0	<2.0	<2.0	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

Table 6						
	Believed Present (YES or NO)	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	-	Grab	Grab	Grab	Grab	-
Sample Date	-	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutants**						
Bromide	NO					
Color (PCU)	NO					
Nitrate-Nitrite (as N)	YES	50.6	64.3	<200	98.9	-
Sulfide (as S)	NO					
Sulfite (as SO3)	NO					
Surfactants	NO					
Boron, total	YES	90.3	84.4	118	183	20
Cobalt, total	NO					
Iron, total	YES	919	1,120	1,100	1,170	7
Magnesium, total	YES	23,200	20,600	21,400	22,600	20
Manganese, total	YES	337	482	519	567	0.5
Molybdenum, total	YES	4.74	4.05	3.50	2.73	1
Tin, total	NO					
Titanium, total	NO					

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

** results in ug/L unless otherwise noted

ug/L - micrograms per Liter

Table 13					
	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL* (µg/L)
Sample Type	Grab	Grab	Grab	Grab	-
Sample Date	5/8/2024	5/14/2024	5/21/2024	5/28/2024	-
Pollutant					
Aniline	<5.00	<5.00	<5.00	<5.00	10

MAL - minumum analytical level

* Laboratory detection limits are as sensitive or more sensitive than MALs

ug/L - micrograms per Liter

The TCEQ is committed to accessibility.
To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.

Compliance History Report

Compliance History Report for CN600356976, RN102414232, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent, or Owner/Operator:	CN600356976, The Dow Chemical Company	**Classification:** SATISFACTORY	**Rating:** 1.64
Regulated Entity:	RN102414232, DOW CHEMICAL LA PORTE SITE	**Classification:** HIGH	**Rating:** 0.00
Complexity Points:	28	**Repeat Violator:** NO	
CH Group:	05 - Chemical Manufacturing		
Location:	550 INDEPENDENCE PKWY S LA PORTE, TX 77571-9768, HARRIS COUNTY		
TCEQ Region:	REGION 12 - HOUSTON		

ID Number(s):

AIR OPERATING PERMITS ACCOUNT NUMBER HG0769O
AIR OPERATING PERMITS PERMIT 1365
PUBLIC WATER SYSTEM/SUPPLY REGISTRATION 1010650
AIR NEW SOURCE PERMITS AFS NUM 4820100053
AIR NEW SOURCE PERMITS REGISTRATION 72072
AIR NEW SOURCE PERMITS ACCOUNT NUMBER HG0769O
AIR NEW SOURCE PERMITS REGISTRATION 52993
AIR NEW SOURCE PERMITS REGISTRATION 52995
AIR NEW SOURCE PERMITS REGISTRATION 47833
AIR NEW SOURCE PERMITS REGISTRATION 50131
AIR NEW SOURCE PERMITS REGISTRATION 49948
AIR NEW SOURCE PERMITS REGISTRATION 1056A
AIR NEW SOURCE PERMITS REGISTRATION 10619A
AIR NEW SOURCE PERMITS PERMIT 5835A
AIR NEW SOURCE PERMITS PERMIT 19921
AIR NEW SOURCE PERMITS REGISTRATION 23253
AIR NEW SOURCE PERMITS REGISTRATION 23399
AIR NEW SOURCE PERMITS REGISTRATION 23657
AIR NEW SOURCE PERMITS REGISTRATION 23898
AIR NEW SOURCE PERMITS REGISTRATION 24195
AIR NEW SOURCE PERMITS REGISTRATION 24692
AIR NEW SOURCE PERMITS REGISTRATION 24657
AIR NEW SOURCE PERMITS REGISTRATION 27082
AIR NEW SOURCE PERMITS REGISTRATION 28424
AIR NEW SOURCE PERMITS REGISTRATION 31892
AIR NEW SOURCE PERMITS REGISTRATION 39326
AIR NEW SOURCE PERMITS REGISTRATION 39492
AIR NEW SOURCE PERMITS REGISTRATION 39986
AIR NEW SOURCE PERMITS REGISTRATION 43475
AIR NEW SOURCE PERMITS REGISTRATION 43528
AIR NEW SOURCE PERMITS REGISTRATION 45102
AIR NEW SOURCE PERMITS REGISTRATION 45849
AIR NEW SOURCE PERMITS REGISTRATION 72851
AIR NEW SOURCE PERMITS REGISTRATION 73226
AIR NEW SOURCE PERMITS REGISTRATION 73776
AIR NEW SOURCE PERMITS REGISTRATION 79448
AIR NEW SOURCE PERMITS REGISTRATION 79295
AIR NEW SOURCE PERMITS REGISTRATION 80023
AIR NEW SOURCE PERMITS REGISTRATION 82810
AIR NEW SOURCE PERMITS PERMIT 83785
AIR NEW SOURCE PERMITS REGISTRATION 82509
AIR NEW SOURCE PERMITS REGISTRATION 92253
AIR NEW SOURCE PERMITS REGISTRATION 100487
AIR NEW SOURCE PERMITS REGISTRATION 110827
AIR NEW SOURCE PERMITS REGISTRATION 110845
AIR NEW SOURCE PERMITS REGISTRATION 110839
AIR NEW SOURCE PERMITS REGISTRATION 110841
AIR NEW SOURCE PERMITS REGISTRATION 110831
AIR NEW SOURCE PERMITS REGISTRATION 110833
AIR NEW SOURCE PERMITS REGISTRATION 159003
AIR NEW SOURCE PERMITS REGISTRATION 172043
AIR NEW SOURCE PERMITS REGISTRATION 173839
IHW CORRECTIVE ACTION SOLID WASTE REGISTRATION # (SWR) 30464
WASTEWATER PERMIT WQ0000663000
WASTEWATER EPA ID TX0002933
WASTEWATER PERMIT WQ0005463000
WASTEWATER EPA ID TX0146391
AIR EMISSIONS INVENTORY ACCOUNT NUMBER HG0769O
POLLUTION PREVENTION PLANNING ID NUMBER P00181
INDUSTRIAL AND HAZARDOUS WASTE PERMIT 50253
INDUSTRIAL AND HAZARDOUS WASTE EPA ID TXD000017756
INDUSTRIAL AND HAZARDOUS WASTE SOLID WASTE REGISTRATION # (SWR) 30464
INDUSTRIAL AND HAZARDOUS WASTE PERMIT 50202

Compliance History Period: September 01, 2019 to August 31, 2024 **Rating Year:** 2024 **Rating Date:** 09/01/2024

Date Compliance History Report Prepared: November 25, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: July 24, 2019 to November 25, 2024

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT **Phone:** (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES
2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:
N/A

B. Criminal convictions:
N/A

C. Chronic excessive emissions events:
N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	August 19, 2019	(1599427)
Item 2	September 20, 2019	(1606332)
Item 3	October 24, 2019	(1613178)
Item 4	November 21, 2019	(1618992)
Item 5	January 24, 2020	(1633985)
Item 6	February 20, 2020	(1640604)
Item 7	March 24, 2020	(1647124)
Item 8	June 02, 2020	(1660046)
Item 9	June 18, 2020	(1666549)
Item 10	July 22, 2020	(1673507)
Item 11	September 24, 2020	(1686852)
Item 12	October 15, 2020	(1693198)
Item 13	November 18, 2020	(1712286)
Item 14	December 23, 2020	(1712287)
Item 15	January 21, 2021	(1712288)
Item 16	January 22, 2021	(1692212)
Item 17	March 24, 2021	(1725343)
Item 18	April 23, 2021	(1725344)
Item 19	May 20, 2021	(1739986)
Item 20	July 15, 2021	(1736878)
Item 21	July 21, 2021	(1751648)
Item 22	August 23, 2021	(1757114)
Item 23	September 22, 2021	(1766133)
Item 24	October 25, 2021	(1776595)
Item 25	November 18, 2021	(1783565)
Item 26	December 17, 2021	(1790587)
Item 27	January 20, 2022	(1798383)
Item 28	February 21, 2022	(1806259)
Item 29	March 24, 2022	(1813322)
Item 30	April 20, 2022	(1819895)
Item 31	May 20, 2022	(1828737)
Item 32	May 31, 2022	(1797317)
Item 33	June 23, 2022	(1835023)
Item 34	August 04, 2022	(1842231)

Item 35	August 22, 2022	(1832433)
Item 36	August 23, 2022	(1848366)
Item 37	September 22, 2022	(1856160)
Item 38	October 24, 2022	(1862519)
Item 39	November 16, 2022	(1841075)
Item 40	November 21, 2022	(1869434)
Item 41	December 23, 2022	(1875280)
Item 42	January 18, 2023	(1882103)
Item 43	February 22, 2023	(1889920)
Item 44	March 20, 2023	(1898477)
Item 45	April 18, 2023	(1905266)
Item 46	May 23, 2023	(1912451)
Item 47	June 22, 2023	(1919051)
Item 48	July 24, 2023	(1926016)
Item 49	August 16, 2023	(1932981)
Item 50	September 21, 2023	(1939115)
Item 51	October 20, 2023	(1945967)
Item 52	November 20, 2023	(1951659)
Item 53	December 21, 2023	(1961421)
Item 54	January 22, 2024	(1968017)
Item 55	February 21, 2024	(1977080)
Item 56	March 22, 2024	(1983645)
Item 57	April 17, 2024	(1990175)
Item 58	May 24, 2024	(1996631)
Item 59	June 21, 2024	(2003582)
Item 60	July 23, 2024	(2011136)
Item 61	August 07, 2024	(1989702)
Item 62	August 22, 2024	(2016740)
Item 63	September 20, 2024	(2023757)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

1 Date: 02/16/2024 (1944547)

Self Report? NO Classification: Minor

Citation: 30 TAC Chapter 116, SubChapter B 116.115(c)
30 TAC Chapter 122, SubChapter B 122.143(4)
40 CFR Chapter 63, SubChapter C, PT 63, SubPT H 63.163(b)(1)
40 CFR Chapter 63, SubChapter C, PT 63, SubPT H 63.173(a)(1)
5C THSC Chapter 382 382.085(b)
Special Condition 4 PERMIT
Special Term and Condition 16 OP
Special Term and Condition 1A OP
Special Term and Condition 1E OP

Description: Failure to conduct monthly monitoring for fugitive components. (Category C1)

F. Environmental audits:

Notice of Intent Date: 07/08/2019 (1580552)

Disclosure Date: 10/09/2019

Viol. Classification: Moderate

Citation: 30 TAC Chapter 115, SubChapter D 115.355(1)
30 TAC Chapter 116, SubChapter B 116.115(c)
30 TAC Chapter 122, SubChapter B 122.144
40 CFR Chapter 264, SubChapter I, PT 264, SubPT BB 264.1063(b)(1)
40 CFR Chapter 265, SubChapter I, PT 265, SubPT BB 265.1063(b)(1)

Rqmt Prov: PERMIT SC No. 5
OP ST&C Nos. 1, 9, and 18

Description: Failure to maintain complete and available records of fugitive monitoring instrument calibrations.

Compliance History Report for CN600356976, RN102414232, Rating Year 2024 which includes Compliance History (CH) components from July 24, 2019, through November 25, 2024.

Notice of Intent Date: 07/25/2019 (1589602)
No DOV Associated

Notice of Intent Date: 12/18/2019 (1618793)
Disclosure Date: 04/03/2020
Viol. Classification: Major
Citation: 30 TAC Chapter 116, SubChapter B 116.111(a)(2)
30 TAC Chapter 122, SubChapter B 122.132(d)
Description: Failure to maintain authorization for Tank R-771 and the associated scrubber (TKR771).
Viol. Classification: Moderate
Citation: 30 TAC Chapter 113, SubChapter C 113.890
30 TAC Chapter 116, SubChapter B 116.115(c)
40 CFR Chapter 63, SubChapter C, PT 63, SubPT FFFF 63.2450(k)(5)
Rqmt Prov: PERMIT SC 4
Description: Failure to maintain accurate and complete L/G ratio data for scrubbers.

Notice of Intent Date: 04/21/2020 (1650614)
No DOV Associated

Notice of Intent Date: 12/01/2020 (1697916)
Disclosure Date: 04/08/2021
Viol. Classification: Moderate
Citation: 30 TAC Chapter 113, SubChapter C 113.130
30 TAC Chapter 115, SubChapter D 115.352(7)
30 TAC Chapter 116, SubChapter B 116.115(c)
40 CFR Chapter 63, SubChapter C, PT 63, SubPT H 63.181(b)(7)
Description: Failure to monitor components that were misidentified as difficult to monitor.
Viol. Classification: Moderate
Citation: 30 TAC Chapter 113, SubChapter C 113.130
30 TAC Chapter 115, SubChapter D 115.352(7)
30 TAC Chapter 116, SubChapter B 116.115(c)
40 CFR Chapter 63, SubChapter C, PT 63, SubPT H 63.181(b)(7)
Description: Failure to monitor components due to not being included in the LDAR management system.

Notice of Intent Date: 05/26/2021 (1736190)
No DOV Associated

Notice of Intent Date: 07/20/2021 (1749348)
No DOV Associated

Notice of Intent Date: 04/26/2022 (1812693)
No DOV Associated

Notice of Intent Date: 03/22/2023 (1888503)
No DOV Associated

Notice of Intent Date: 05/08/2023 (1904030)
Disclosure Date: 06/06/2024
Viol. Classification: Moderate
Citation: 30 TAC Chapter 305, SubChapter F 305.124
Description: Failure to have correct Outfall 002 and 003 flow estimation calculations.

Notice of Intent Date: 08/30/2023 (1929967)
No DOV Associated

Notice of Intent Date: 12/13/2023 (1950930)
No DOV Associated

Notice of Intent Date: 03/27/2024 (1975919)
No DOV Associated

G. Type of environmental management systems (EMSs):
N/A

H. Voluntary on-site compliance assessment dates:
N/A

I. Participation in a voluntary pollution reduction program:
N/A

J. Early compliance:
N/A

Sites Outside of Texas:
N/A

TCEQ Interoffice Memorandum

To: Industrial Permits Team
Wastewater Permitting Section

From: Xing Lu, P.E
Modeler, Water Quality Assessment Team
Water Quality Assessment Section

Date: January 30, 2025

Subject: The Dow Chemical Company
New Permit (WQ0005463000, TX0146391)
Discharge to a tributary of San Jacinto Bay (Segment No. 2427)

The memo supersedes the memo dated January 15, 2025.

The referenced applicant is proposing a new permit authorizing the discharge of wastewater from the organic recovery system (ORS) via Outfall 001 into the watershed of San Jacinto Bay (Segment No. 2427). The proposed flow at Outfall 001 is intermittent discharge and the proposed daily average flow is 0.01 MGD. The flow is currently authorized under TPEDS permit No. 00663000 via Outfall 001. The facility is located in Harris County.

Due to the low concentrations of oxygen demanding constituents expected in the wastewater, no significant dissolved oxygen depletion is anticipated in the receiving waters as a result of this discharge.

Segment No. 2427 is currently listed on the State's inventory of impaired and threatened waters (the 2022 Clean Water Act Section 303(d) list). The listings are for dioxin in edible tissue and PCBs in edible tissue throughout the entire segment (AU 2427_01).

The TMDL project Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System (TMDL Project No.1) **has been withdrawn and is no longer applicable**.

TCEQ Interoffice Memorandum

To: Industrial Permits Team
Wastewater Permitting Section

From: Xing Lu, P.E
Modeler, Water Quality Assessment Team
Water Quality Assessment Section

Date: January 15, 2025

Subject: The Dow Chemical Company
New Permit (WQ0005463000, TX0146391)
Discharge to a tributary of San Jacinto Bay (Segment No. 2427)

The referenced applicant is proposing a new permit authorizing the discharge of wastewater from the organic recovery system (ORS) via Outfall 001 into the watershed of San Jacinto Bay (Segment No. 2427). The proposed flow at Outfall 001 is intermittent discharge and the proposed daily average flow is 0.01 MGD. The flow is currently authorized under TPEDS permit No. 00663000 via Outfall 001. The facility is located in Harris County.

Please provide the technology-based limits developed for this facility via Outfall 001 when they become available so that the dissolved oxygen analysis of this discharge can be finalized.

Segment No. 2427 is currently listed on the State's inventory of impaired and threatened waters (the 2022 Clean Water Act Section 303(d) list). The listings are for dioxin in edible tissue and PCBs in edible tissue throughout the entire segment (AU 2427_01).

The TMDL project Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System (TMDL Project No.1) **has been withdrawn and is no longer applicable**.

TCEQ Interoffice Memorandum

To: Industrial Permits Team
Wastewater Permitting Section

From: Sarah Musgrove, Water Quality Assessment Team
Water Quality Assessment Section

Date: December 19, 2024

Subject: The Dow Chemical Company
Wastewater Permit No. WQ0005463000
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **9** for an intermittent water body within 3 miles of a narrow tidal water body with upstream flow.

This discharge is to an unnamed ditch within three miles of a tidal tributary.

Segment No. (freshwater)	1102
Effluent Flow for Aquatic Life (MGD)	0.32 (2-yr max)
% Effluent for Acute Aquatic Life (Intermittent)	100

Segment No.	2427
Critical Low Flow [7Q2] (cfs)	0.80
% Effluent for Chronic Aquatic Life (Narrow Tidal River)	13
% Effluent for Acute Aquatic Life (Narrow Tidal River)	38
Effluent Flow for Human Health (MGD)	0.08 (Proposed)
Harmonic Mean Flow (cfs)	1.13
% Effluent for Human Health (Narrow Tidal River)	10

Human Health criteria apply for Fish Only.

The immediate receiving water body is an unnamed ditch, which is intermittent. Chronic aquatic life criteria do not apply. Human health criteria do not apply.

There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

This discharge is into a freshwater body that flows into a saltwater segment. Therefore, data from a representative freshwater segment is recommended for screening the freshwater portion of the discharge route. **Use Segment No. 1102 values for pH, TSS, hardness, and chloride** for the evaluation of the immediate receiving waters.

OUTFALL LOCATION [1]

Outfall Number	Latitude	Longitude
001	29.7097222 N	95.0763889 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Industrial Permits Team
Wastewater Permitting Section

From: Jenna R. Lueg Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Thru: C. Brad Caston, Standards Implementation Team Peer Review
Water Quality Assessment Section
Water Quality Division

Date: 9/16/2024

Subject: The Dow Chemical Company; Permit no. WQ0005463000
New; Application received 7/24/2024

The discharge route for the above referenced permit is to an unnamed ditch, thence to a tidal tributary, thence to San Jacinto Bay in Segment 2427 of the Bays and Estuaries. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 2427 are primary contact recreation, high aquatic life use, and 4.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with 30 Texas Administrative Code §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

Unnamed ditch; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
Tidal tributary; high aquatic life use; 4.0 mg/L dissolved oxygen.

In accordance with 30 Texas Administrative Code §307.5 and TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in tidal tributary and San Jacinto Bay, which have been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Applicant Name:	**The Dow Chemical Company**
Permit Number, Outfall:	**05463-000, 001**
Segment Number:	**2427, used Segment 1102 as indicated on Critical Conditions memo.**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	**600**	mg/L	2010 TSWQS, Appendix A
Cl CC - segment criterion - chloride	**200**	mg/L	2010 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	**100**	mg/L	2010 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	**670**	mg/L	Permit application
Cl CE - average effluent concentration - chloride	**266**	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	**23.6**	mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS}, as follows:

C_{TDS} = (TDS CC / 500 mg/L) * 2,500 mg/L

Where:	C_{TDS} = TDS concentration used to determine Csv screening value
	TDS CC = TDS criterion at the first downstream segment
	500 mg/L = the median TDS concentration in Texas streams
	2,500 mg/L = the minimum TDS screening value

C_{TDS} = 3000 mg/L

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		**Then TDS Csv**
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	**If C_{TDS} is**	**Default Csv =**
Dry except for short-term flow in immediate response to rainfall.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and wastewater, considered water in the state.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv is established, the next step is to compare the effluent TDS concentration, TDS CE, to the screening value. Control measures, which may include effluent limitations, are

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considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening			Data Source
TDS CE - average effluent TDS concentration	670	mg/L	Permit application
TDS Csv - TDS screening value	**3000**	mg/L	Determined above

No control measures needed if:	670	≤	3000
Consider control measures if:	670	>	3000

No control measures needed for TDS

Before establishing effluent limitations for TDS, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl Csv, as follows:

Cl Csv = (TDS Csv /TDS CC) * Cl CC

Where:
- Cl Csv = chloride screening value
- TDS Csv = TDS screening value
- TDS CC = TDS criterion at the first downstream segment
- Cl CC - chloride criterion at the first downstream segment

Cl Csv = **1000** mg/L

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening			Data Source
Cl CE - average effluent chloride concentration	266	mg/L	Permit application
Cl Csv - chloride screening value	1000	mg/L	Determined above

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

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No control measures needed if:	266	≤	1000
Consider control measures if:	266	>	1000

No control measures needed for chloride

Before establishing effluent limitations for chloride, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO4 Csv, as follows:

SO4 Csv = (TDS Csv /TDS CC) * SO4 CC

Where:
- SO4 Csv = sulfate screening value
- TDS Csv = TDS screening value
- TDS CC = TDS criterion at the first downstream segment
- SO4 CC - sulfate criterion at the first downstream segment

SO4 Csv = **500** mg/L

Once the SO4 Csv is established, the next step is to compare the effluent sulfate concentration, SO4 CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			Data Source
SO4 CE - average effluent sulfate concentration	23.6	mg/L	Permit application
SO4 Csv - sulfate screening value	500	mg/L	Determined above

No control measures needed if:	23.6	≤	500
Consider control measures if:	23.6	>	500

No control measures needed for sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate
Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Intermittent Stream

Before establishing effluent limitations for sulfate, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

Sulfate

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Note: do not copy into Fact Sheet or Statement of Basis/Technical Summary

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