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 *

* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.

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.

Pilgrim's Pride Corporation (CN601276660) operates the Pilgrim's Pride Southwest Wastewater Treatment Plant RN102184041, a wastewater treatment plant treating industrial wastewater from poultry processing operations and a number of private residences. The facility is located at 664 FM 127 W, in Mt. Pleasant, Titus County, Texas 75455. This application is for a renewal of Wastewater Permit W0003017000 to discharge 3,500,000 gallons per day of treated effluent via Outfall 001.

Discharges from the facility are expected to contain pollutants listed in 40 CFR Part 432 including: 5-day biochemical oxygen demand, fecal coliform, oil and grease, total suspended solids, ammonia, total nitrogen, pH, and temperature. Additional potential pollutants from this discharge are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.Wastewater treated at this facility consists of a combination of process wastewaters from poultry first and further processing and protein conversion (rendering) operations along with industrial stormwater discharges from these operations and sanitary wastewater from a small number of private residences. Wastewater from these sources is treated by initial screening, biological treatment via anaerobic, anoxic/oxic, and aeration basins/lagoons, final clarification, tertiary filtration, chlorination, and dechlorination prior to discharge.

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.

Pilgrim's Pride Corporation (CN601276660) opera la planta de tratamiento de aguas residuales de Pilgrim's Pride Southwest RN102184041, una planta de tratamiento de aguas residuales que trata las aguas residuales industriales de las operaciones de procesamiento de aves y varias residencias privadas. La instalación está ubicada en 664 FM 127 W, en Mt. Pleasant, condado de Titus, Texas 75455. Esta solicitud es para renovar el permiso de aguas residuales W0003017000 para descargar 3,500,000 galones por día de efluentes tratados a través del Outfall 001.

Se espera que las descargas de la instalación contengan contaminantes enumerados en 40 CFR Part 432, que incluyen: demanda bioquímica de oxígeno de 5 días, coliformes fecales, aceite y grasa, sólidos suspendidos totales, amoníaco, nitrógeno total, pH y temperatura. Los posibles contaminantes adicionales de esta descarga se incluyen en el Industrial Wastewater Application Technical Report, Worksheet 2.0. Las aguas residuales tratadas en esta instalación son una combinación de aguas residuales de proceso de las operaciones de conversión (rendimiento) de proteínas y primer procesamiento de aves de corral junto con descargas de aguas pluviales industriales de estas operaciones y aguas residuales sanitarias de una pequeña cantidad de residencias privadas. Las aguas residuales de estas fuentes son tratadas mediante procesos físicos/químicos y biológicos de tratamiento de aguas residuales.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.

RECEIVED
MAY 01 2023
Water Quality Applications Team

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0001914000

APPLICATION. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, which owns an organic chemical manufacturing and processing plant, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001914000 (EPA I.D. No. TX0059285) to authorize the discharge of treated wastewater and stormwater at a volume not to exceed a daily average flow of 60,000 gallons per day via Outfall 001; and the discharge of stormwater at an intermittent and flow-variable rate via Outfall 002. The facility is located at 5501 West Baker Road, Baytown, in Harris County, Texas 77520. The discharge route is from the plant site to Harris County Flood Control District Ditch; thence to West Fork Goose Creek; thence to Goose Creek; thence to Goose Creek Tidal, thence to Tabbs Bay. TCEQ received this application on October 6, 2023. The permit application will be available for viewing and copying at Sterling Municipal Library, 1 Mary Wilbanks Avenue, Baytown, Texas prior to the date this notice is published in the newspaper. 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=-95.02,29.763611&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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. 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 Monument Chemical Baytown, LLC at the address stated above or by calling Mr. Philip Sprague, Environmental Supervisor, at 281-424-4505.

Issuance Date: December 5, 2023

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
RENOVACION

PERMISO NO. WQ0001914000

SOLICITUD. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0001914000 (EPA I.D. No. TX 0059285) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 60,000 galones por día a través del Emisario 001, y la descarga de aguas pluviales a un ritmo intermitente y de caudal variable a través del Emisario 002. La planta está ubicada 5501 West Baker Road, Baytown, en el Condado de Harris, Texas 77520. La ruta de descarga es del sitio de la planta a es desde el sitio de la planta hasta la zanja del Distrito de Control de Inundaciones del Condado de Harris; de allí a West Fork Goose Creek; de allí a Goose Creek; de allí a Goose Creek Tidal y de allí a Tabbs Bay.La TCEQ recibió esta solicitud el 6 de Octubre de 2023. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Municipal Sterling, 1 Mary Wilbanks Avenue, Baytown, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.02,29.763611&level=18

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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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 Monument Chemical Baytown, LLC en la dirección indicada anteriormente o llamando al Sr. Philip Sprague, Supervisor Ambiental, al 281-424-4505

Fecha de emission 5 de diciembre de 2023

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

RENEWAL

Permit No. WQ0001914000

APPLICATION AND PRELIMINARY DECISION. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, which operates Monument Chemical Baytown Facility, an organic chemical manufacturing and processing plant, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001914000, which authorizes the discharge of treated domestic wastewater, utility wastewaters (utility blowdown and washwaters), and stormwater at a daily average flow not to exceed 60,000 gallons per day via Outfall 001, and stormwater on an intermittent and flow variable basis via Outfall 002. The TCEQ received this application on October 6, 2023.

The facility is located at 5501 West Baker Road, midway between Decker Drive and Bayway Drive, in the City of Baytown, Harris County, Texas 77520. 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=-95.02,29.763611&level=18

The effluent is discharged via Outfalls 001 and 002 to an unnamed ditch, thence to Harris County Flood Control District (HCFCD) ditch O107-00-00, thence to West Fork Goose Creek, thence to Goose Creek, thence to Goose Creek (tidal), thence to Tabbs Bay in Segment No. 2426 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch, HCFCD ditch O107-00-00, and West Fork Goose Creek; limited aquatic life use for Goose Creek; and high aquatic life use for Goose Creek (tidal). The designated uses for Segment No. 2426 are primary contact recreation and high aquatic life use.

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 Sterling Municipal Library, 1 Mary Wilbanks Avenue, Baytown, Texas.

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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 Monument Chemical Baytown, LLC at the address stated above or by calling Mr. Philip Sprague, Environmental Supervisor, at 281-424-4505.

Issued: July 3, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES INDUSTRIALES

RENOVACIÓN

PERMISO NO. WQ0001914000

SOLICITUD Y DECISIÓN PRELIMINAR. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar No. WQ0001914000, que autoriza la descarga de aguas residuales domésticas tratadas, aguas residuales de servicios públicos (descarga de torres de enfriamiento y aguas de lavado) y aguas pluviales con un flujo promedio diario que no debe exceder 60,000 galones por día a través del desagüe 001, y aguas pluviales de manera intermitente y con flujo variable a través del desagüe 002. La TCEQ recibió esta solicitud el 6 de octubre de 2023

La planta está ubicada en 5501 West Baker Road, a medio camino entre Decker Drive y Bayway Drive, en la ciudad de Baytown en el Condado de Harris, Texas. El efluente tratado es descargado al 001 y 002 en una zanja no clasificada, luego a la zanja O107-00-00 del Distrito de Control de Inundaciones del Condado de Harris (HCFCD, por sus siglas en inglés), luego al West Fork Goose Creek, luego al Goose Creek, luego al Goose Creek (marea), luego a Tabbs Bay en el Segmento No. 2426 de la Cuenca del Río de las Bahías y Estuarios. Los usos no clasificados de las aguas receptoras son no significativos limitados , intermedios, elevados, excepcionales usos de la vida acuática para para la zanja no clasificada, la zanja O107-00-00 del HCFCD y el West Fork Goose Creek; el uso limitado de vida acuática para el Goose Creek; y el uso de vida acuática alta para el Goose Creek (marea). Los usos designados para el Segmento No. 2426 son no significativos, limitados, intermedios, elevados, o uso excepcional de vida acuática; abastecimiento de agua potable, provisión de agua a la industria, agua para ostras, navegación y recreación sin contacto.

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 de el CMP.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y

legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Biblioteca Municipal de Sterling, 1 Mary Wilbanks Avenue, Baytown, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.02,29.763611&level=18

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

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 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 solicitud, se enviará por correo a todos los que enviaron comentarios públicos o que solicitaron estar en una lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o reconsiderar la decisión del director ejecutivo.** Una audiencia de caso disputado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

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.

La Comisión otorgará solamente una audiencia administrativa de lo contencioso sobre los hechos reales disputados del caso que son pertinentes y esenciales para la decisión de la Comisión sobre la solicitud. Además, la Comisión sólo otorgará una audiencia administrativa de lo contencioso sobre los asuntos que fueron presentados antes del plazo de vencimiento y que no fueron retirados posteriormente. **Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia de caso impugnado oportunamente o una solicitud de reconsideración. 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 solicitud y la petición a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo para que esta solicitud reciba avisos públicos futuros enviadas por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Para ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a la Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a https://www14.tceq.texas.gov/epic/eComment/ 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 solicitud, visite la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de

permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Monument Chemical Baytown a la dirección indicada arriba o llamando a Mr. Philip Sprague, Environmental Supervisor, al 281-424-4505.

Fecha de emission: 3 de julio de 2025

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

TPDES PERMIT NO.
WQ0001914000
[For TCEQ office use only -
EPA I.D. No. TX0059285]

This renewal replaces TPDES Permit No. WQ0001914000, issued on April 3, 2019.

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

Monument Chemical Baytown, LLC

whose mailing address is

5501 West Baker Road
Baytown, Texas 77520

is authorized to treat and discharge wastes from Monument Chemical Baytown Facility, a wastewater treatment facility at an organic chemical manufacturing and processing plant (SIC 2869)

located at 5501 West Baker Road, midway between Decker Drive and Bayway Drive, in the City of Baytown, Harris County, Texas 77520

to an unnamed ditch, thence to Harris County Flood Control District (HCFCD) ditch O107-00-00, thence to West Fork Goose Creek, thence to Goose Creek, thence to Goose Creek (tidal), thence to Tabbs Bay in Segment No. 2426 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

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

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 domestic wastewater, utility wastewaters (utility blowdown and washwaters), and stormwater subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.060 million gallons per day (MGD). The daily maximum flow shall not exceed 0.080 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	0.060 MGD	0.080 MGD	N/A	3/day [1]	Estimate
Biochemical Oxygen Demand (5-day)	10	25	35	2/week [1]	Composite
Total Suspended Solids	15	40	60	2/week [1]	Composite
Chemical Oxygen Demand	N/A	150	150	2/week [1]	Composite
Oil and Grease	10	15	15	2/week [1]	Grab
E. coli [2]	126	394	394	2/month [1]	Grab
Chlorine residual [3]	N/A	4.0	4.0	1/week [1]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day [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 30° V-notch weir, located downstream of the last wastewater treatment unit.

[1] When discharging.

[2] Colony forming units (cfu) or most probable number (MPN) per 100 mL.

[3] Where chlorination is utilized, any combination of detention time and chlorine residual where the product of chlorine (Cl2 mg/l) X Time (T minutes) equals or exceeds 20 is satisfactory provided that the minimum detention time is at least 20 minutes. The maximum chlorine residual in any discharge shall in no event be greater than 4.0 mg/l per grab sample, or that necessary to protect aquatic life.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 002

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 stormwater subject to the following effluent limitations:

   Volume: Intermittent and flow-variable.

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	Report, MGD	N/A	1/day[1]	Estimate
Chemical Oxygen Demand	N/A	200	200	1/day[1]	Grab
Oil and Grease	N/A	15	15	1/day[1]	Grab
Total Phenols[2]	N/A	0.05	0.05	1/month[1]	Grab

2. The pH must not be less than 6.0 standard units nor greater than 9.0 standard units and must be monitored 1/day [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 002, at the discharge from the stormwater drainage system.

[1] When discharging.
[2] 4AAP or similar method.

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.

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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)
Phenol	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 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 determined that the action is consistent with the applicable CMP goals and policies.

3. COOLING WATER INTAKE STRUCTURE REQUIREMENTS

The permittee shall provide written notification to the TCEQ Industrial Permits Team (MC 148) and Region 12 Office of any changes in the method by which the facility obtains water for cooling purposes. This notification must be submitted 30 days prior to any such change and must include a description of the planned changes. The TCEQ may, upon review of the notification, reopen the permit to include additional terms and conditions as necessary.

4. There is no mixing zone established for this discharge via Outfall 001 to an intermittent stream. Acute toxic criteria apply at the point of discharge.

5. The permittee is prohibited from using the biocide BAT-T-CLEAN due to persistent mortality in previous biomonitoring.

6. The permittee is prohibited from using cooling tower maintenance chemicals which contain chromium or zinc.

7. For parameters listed at pages 2 or 2a of this permit with a specified monitoring frequency equal to or less frequently than 1/month, should monitoring results for a parameter indicate an exceedance of the specified limit, 1/week monitoring for said parameter shall commence and continue until such time as results from a minimum of four monitoring events for the parameter indicate full compliance.

8. The permittee shall notify the Executive Director in writing, at least 90 days prior to discontinuing use of any surface impoundment, pit, or basin authorized by this permit. The permittee shall, at the request of the Executive Director, submit such information as is necessary to evaluate closure of the waste management unit(s) including, but not limited to, chemical analyses of bottom sediments, soils, and groundwater samples.

9. POND REQUIREMENTS

A wastewater pond must comply with the following requirements. A *wastewater pond (or lagoon)* is an earthen structure used to evaporate, hold, store, or treat water that contains a *waste* or *pollutant* or that would cause *pollution* upon *discharge* as those terms are defined in Texas Water Code § 26.001, but does not include a pond that contains only *stormwater*.

A. A wastewater pond **subject to 40 CFR Part 257, Subpart D** (related to coal combustion residuals) must comply with those requirements in lieu of the requirements in B through G of POND REQUIREMENTS.

B. An **existing** wastewater pond must be maintained to meet or exceed the original approved design and liner requirements; or, in the absence of original approved requirements, must be maintained to prevent unauthorized discharge of wastewater into or adjacent to water in the state. The permittee shall maintain copies of all liner construction and testing documents at the facility or in a reasonably accessible location and make the information available to the executive director upon request.

C. A **new** wastewater pond constructed after the issuance date of this permit must be lined in compliance with one of the following requirements if it will contain process wastewater as defined in 40 CFR § 122.2. The executive director will review ponds that will contain only non-process wastewater on a case-by case basis to determine whether the pond must be lined. If a pond will contain only non-process wastewater, the owner shall notify the Industrial Permits Team (MC-148) to obtain a written determination at least 90 days before the pond is placed into service. The permittee must submit all information about the proposed pond contents that is reasonably necessary for the executive director to make a determination. If the executive director determines that a pond does not need to be lined, then the pond is exempt from C1 through C3 and D through G of POND REQUIREMENTS.

A wastewater pond that only contains domestic wastewater must comply with the design requirements in 30 TAC Chapter 217 and 30 TAC § 309.13(d) in lieu of items C1 through C3 of this subparagraph.

1. Soil liner: The soil liner must contain clay-rich soil material (at least 30% of the liner material passing through a #200 mesh sieve, liquid limit greater than or equal to 30, and plasticity index greater than or equal to 15) that completely covers the sides and bottom of the pond. The liner must be at least 3.0 feet thick. The liner material must be compacted in lifts of no more than 8 inches to 95% standard proctor density at the optimum moisture content in accordance with ASTM D698 to achieve a permeability less than or equal to 1×10^{-7} (≤ 0.0000001) cm/sec. For in-situ soil material that meets the permeability

requirement, the material must be scarified at least 8 inches deep and then re-compacted to finished grade.

2. Synthetic membrane: The liner must be a synthetic membrane liner at least 40 mils in thickness that completely covers the sides and the bottom of the pond. The liner material used must be compatible with the wastewater and be resistant to degradation (e.g., from ultraviolet light, chemical reactions, wave action, erosion, etc.). The liner material must be installed and maintained in accordance with the manufacturer's guidelines. A wastewater pond with a synthetic membrane liner must include an underdrain with a leak detection and collection system.

3. Alternate liner: The permittee shall submit plans signed and sealed by a Texas-licensed professional engineer for any other equivalently-protective pond lining method to the TCEQ Industrial Permits Team (MC-148).

D. For a pond that must be lined according to subparagraph C (including ponds with in-situ soil liners), the permittee shall provide certification, signed and sealed by a Texas-licensed professional engineer, stating that the completed pond lining and any required underdrain with leak detection and collection system for the pond meet the requirements in subparagraph C1 – C3 before using the pond. The certification shall include the following minimum details about the pond lining system: (1) pond liner type (in-situ soil, amended in-situ soil, imported soil, synthetic membrane, or alternative), (2) materials used, (3) thickness of materials, and (4) either permeability test results or a leak detection and collection system description, as applicable.

The certification must be provided to the TCEQ Water Quality Assessment Team (MC-150), Industrial Permits Team (MC-148), Compliance Monitoring Section (MC-224), and TCEQ Regional Office. A copy of the liner certification and construction details (i.e., as-built drawings, construction QA/QC documentation, and post construction testing) must be kept on-site or in a reasonably accessible location (in either hardcopy or digital format) until the pond is closed.

E. Protection and maintenance requirements for a pond subject to subparagraph B or C (including ponds with in-situ soil liners).

1. The permittee shall maintain a liner to prevent the unauthorized discharge of wastewater into or adjacent to water in the state.

2. A liner must be protected from damage caused by animals. Fences or other protective devices or measures may be used to satisfy this requirement.

3. The permittee shall maintain the structural integrity of the liner and shall keep the liner and embankment free of woody vegetation, animal burrows, and excessive erosion.

4. The permittee shall inspect each pond liner and each leak detection system at least once per month. Evidence of damage or unauthorized discharge must be evaluated by a Texas licensed professional engineer or Texas licensed professional geoscientist within 30 days. The permittee is not required to drain an operating pond or to inspect below the waterline during these routine inspections.

   a. A Texas licensed professional engineer or Texas licensed professional geoscientist must evaluate damage to a pond liner, including evidence of an unauthorized discharge without visible damage.

   b. Pond liner damage must be repaired at the recommendation of a Texas licensed professional engineer or Texas licensed professional geoscientist. If the damage is significant or could result in unauthorized discharge, then the repair must be documented and certified by a Texas licensed professional engineer. Within 60 days after a repair is completed, liner certification must be provided to the TCEQ Water

Quality Assessment Team (MC-150), Compliance Monitoring Section (MC-224), and TCEQ Regional Office. A copy of the liner certification must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.

c. A release determination and subsequent corrective action will be based on 40 CFR Part 257 or the Texas Risk Reduction Program (30 TAC Chapter 350), as applicable. If evidence indicates that an unauthorized discharge occurred, including evidence that the actual permeability exceeds the design permeability, the matter may also be referred to the TCEQ Enforcement Division to ensure the protection of the public and the environment.

F. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall have a Texas licensed professional engineer perform an evaluation of each pond that requires a liner at least once every five years. The evaluation must include: (1) a physical inspection of the pond liner to check for structural integrity, damage, and evidence of leaking; (2) a review of the liner documentation for the pond; and (3) a review of all documentation related to liner repair and maintenance performed since the last evaluation. For the purposes of this evaluation, evidence of leaking also includes evidence that the actual permeability exceeds the design permeability. The permittee is not required to drain an operating pond or to inspect below the waterline during the evaluation. A copy of the engineer's evaluation report must be maintained at the facility or in a reasonably accessible location and made available to the executive director upon request.

G. For a pond subject to subparagraph B or C (including ponds with in-situ soil liners), the permittee shall maintain at least 2.0 feet of freeboard in the pond except when:

1. the freeboard requirement temporarily cannot be maintained due to a large storm event that requires the additional retention capacity to be used for a limited period of time;
2. the freeboard requirement temporarily cannot be maintained due to upset plant conditions that require the additional retention capacity to be used for treatment for a limited period of time; or
3. the pond was not required to have at least 2.0 feet of freeboard according to the requirements at the time of construction

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

DESCRIPTION OF APPLICATION

Applicant:	Monument Chemical Baytown, LLC; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001914000 (EPA I.D. No. TX0059285)
Regulated activity:	Industrial wastewater permit
Type of application:	Renewal
Request:	Renewal without changes
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 applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of its existing permit.

PROJECT DESCRIPTION AND LOCATION

The applicant currently operates Monument Chemical Baytown Facility, an organic chemical manufacturing and processing plant.

Wastewater generated at the site for treatment and discharge include utility wastewaters (consisting of cooling tower blowdown, boiler blowdown, and washwater), domestic wastewater, and stormwater.

Utility wastewater, domestic wastewater, and stormwater are routed to an oil-water separator, thence to Treatment Pond No. 1 for aeration and mixing, thence to Treatment Pond No. 2 for additional aeration and biological treatment, thence to a clarifier for flocculation and settling, and thence to a chlorination unit prior to discharge via Outfall 001. Stormwater does not receive treatment prior to discharge via Outfall 002.

Process wastewater generated on-site is segregated, collected, and shipped off-site for treatment and disposal. Process wastewater is not authorized for discharge by this draft permit.

The facility is located at 5501 West Baker Road, midway between Decker Drive and Bayway Drive, in the City of Baytown, Harris County, Texas 77520.

Discharge Route and Designated Uses

The effluent is discharged via Outfalls 001 and 002 to an unnamed ditch, thence to Harris County Flood Control District (HCFCD) ditch O107-00-00, thence to West Fork Goose Creek, thence to Goose Creek, thence to Goose Creek (tidal), thence to Tabbs Bay in Segment No. 2426 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch, HCFCD ditch O107-00-00, and West Fork Goose Creek; limited aquatic life use for Goose Creek; and high aquatic life use for Goose Creek (tidal). The designated uses for Segment No. 2426 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.

Endangered Species Review
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 TPDES program (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.

Impaired Water Bodies
Segment No. 2426 is currently listed on the state's inventory of impaired and threatened waters, the 2024 CWA §303(d) list. The listing is for dioxin and polychlorinated biphenyls (PCBs) in edible tissue throughout the entire segment (Assessment Unit [AU] 2426_01). Goose Creek Tidal (AU 2426C), is also listed for dioxin and PCBs in edible tissue from the Tabbs Bay confluence upstream to the East Fork of Goose Creek confluence (AU 2426C_01).

This permit action is a renewal without changes that will not increase the loadings of any pollutants. Dioxins and PCBs are not manufactured at this facility and there are no other known sources of these pollutants found onsite. Due to these reasons the discharge authorized by this permit action is not expected to contribute to the impairment of the receiving segments.

Completed Total Maximum Daily Loads (TMDLs)
There are no applicable and completed TMDLs for Segment No. 2426. TMDL Project No. 1 *"Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System"* has been withdrawn and is no longer applicable.

Dissolved Oxygen
A dissolved oxygen modeling analysis for Outfall 001 was conducted using an updated version of the calibrated QUAL-TX model documented in the *Waste Load Evaluation WLE-1R for the Houston Ship Channel System* (September 2006).

Based on modeling results, the current effluent limits of 10 mg/L five-day biochemical oxygen demand (BOD_5) for the discharge of 0.06 million gallons per day (MGD) of treated domestic wastewater, utility wastewaters, and stormwater via Outfall 001 is predicted to be adequate to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the unnamed ditch (2.0 mg/L), HCFCD ditch O107-00-00 (2.0 mg/L), West Fork Goose Creek (2.0 mg/L), and Goose Creek (3.0 mg/L).

SUMMARY OF EFFLUENT DATA

The following is a quantitative description of the discharge described in the monthly effluent report data for the period May 2019 through April 2025. The "Avg of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each pollutant. The "Max of Daily Max" values presented in the following table are the individual maximum values for the reporting period for each pollutant. Flows are expressed in million gallons per day (MGD). All pH

values are expressed in standard units (SU). Bacteria values are expressed in colony forming units (cfu) or most probable number (MPN) per 100 milliliters (mL).

Flow

Outfall	Frequency	Avg of Daily Avg, MGD	Max of Daily Max, MGD
001	Continuous	0.019	0.05
002	Intermittent	0.082	0.57

Effluent Characteristics

Outfall	Pollutant	Avg of Daily Avg mg/L	Max of Daily Max mg/L
001	Five-Day Biochemical Oxygen Demand (BOD_5)	1.88	22.6
	Total Suspended Solids (TSS)	9.64	42.7
	Chemical Oxygen Demand (COD)	N/A	167
	Oil and Grease	2.11	64.3
	Escherichia Coli (CFU/100mL)	5 [1]	1230
	Chlorine Residual	N/A	3.0
	pH (SU)	6.33 [2]	8.98
002	COD	N/A	140
	Oil and Grease	N/A	7.9
	Total Phenols	N/A	0.05
	pH (SU)	6.91 [2]	8.9

Effluent limit violations documented in the monthly effluent reports are summarized in the following table.

Effluent Limitation Violations

Outfall	Pollutant (units)	Report Date	Daily Average		Daily Maximum	
			Limit	Reported	Limit	Reported
001	*E. Coli*	02/28/2021	126	365	394	740
	E. Coli	11/30/2022	126	27	394	1230
	COD	10/31/2023	N/A	N/A	150	167
	Oil & Grease	1/31/2025	10	14.28	15	64.3
	TSS	1/31/2025	15	15	40	42.7

The draft permit was not changed to address these effluent limit violations because these violations do not indicate a pattern of non-compliance with the conditions established in the existing permit. Further violations that violate the terms and conditions of the current and draft permits will be addressed by the TCEQ's Office of Compliance and Enforcement.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the discharge of treated domestic wastewater, utility wastewaters (utility blowdown and washwaters), and stormwater at a daily average flow not to exceed 0.060 MGD via Outfall 001; and stormwater on an intermittent and flow-variable basis via Outfall 002.

[1] Calculated using the geometric mean of the daily average values reported for *E. Coli*.
[2] Minimum of the minimum values reported for pH during the period of record.

Effluent limitations are established in the draft permit as follows:

Outfall	Pollutant	Daily Average mg/L	Daily Maximum mg/L
001	Flow (MGD)	0.060	0.080
	BOD_5	10	25
	TSS	15	40
	COD	N/A	150
	Oil and Grease	10	15
	E. Coli (CFU or MPN/100 mL)	126	394
	Chlorine Residual	N/A	4.0
	pH (SU)	6.0 [3]	9.0
002	Flow (MGD)	Report	Report
	Chemical Oxygen Demand	N/A	200
	Oil and Grease	N/A	15
	Total Phenols	N/A	0.05
	pH (SU)	6.0 [3]	9.0

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	29.763542 N	95.019975 W
002	29.763551 N	95.019960 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.

Outfall 001
In the previous permit action, the applicant requested a major amendment to remove the authorization to discharge process wastewater and the associated effluent limitations. The request was granted in 2019 and the facility is no longer permitted to discharge process wastewater subject to effluent limitations at 40 CFR Part 414 – Organic Chemicals, Plastics, and Synthetic Fibers Point Source Category, Subparts H – Specialty Organic Chemicals and I – Direct Discharge Point Sources That Use End-of-Pipe Biological Treatment.

The effluent limits for TSS have been continued in the draft permit based on EPA antibacksliding rules at 40 CFR § 122.44(l). The continued daily average and maximum effluent limitations for BOD_5 and TSS are consistent with the requirements of 30 TAC Chapter 309 – Domestic Wastewater Effluent Limitations and Plant Siting for facilities which use enhanced secondary treatment and discharge to an intermittent receiving water.

The effluent limits for COD and oil and grease have been continued in the draft permit based on EPA antibacksliding rules at 40 CFR § 122.44(l). The continued daily average and maximum effluent limitations for oil and grease and daily maximum effluent limit for COD are consistent with EPA guidance for stormwater discharges from industrial activities routed through settling ponds and TCEQ practice for similar facilities.

[3] Daily Minimum

The daily maximum effluent limit for chlorine residual at Outfall 001 was originally based upon the requirements of 30 TAC Chapter 309 for the discharge of domestic wastewater. This limit is still protective and has been carried forward in the draft permit at Outfall 001.

The existing effluent limits for pH are consistent with EPA guidance for stormwater discharges and TCEQ practice for similar facilities. These limitations are still protective and have been carried forward in the draft permit at Outfall 001 in accordance with 40 CFR § 122.44(l).

Outfall 002

The existing daily maximum limits for COD and oil and grease are consistent with EPA guidance for stormwater discharges associated with industrial activities and TCEQ practice for similar facilities. The existing daily maximum limit for total phenols has been in the draft permit since at least 1988. These limitations are still protective and have been carried forward in the draft permit at Outfall 001 based on EPA's antibacksliding rules at 40 CFR § 122.44(l).

Data reported in the application at Outfall 002 was screened for hazardous metals found in 30 TAC Chapter 319. Based on the screening, no additional monitoring requirements for 30 TAC Chapter 319 metals are required at Outfall 002.

Water Quality-Based Effluent Limitations

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health for Outfall 001 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 December 14, 2023. 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.

To ensure the protection of the receiving unclassified intermittent and perennial freshwater segments, surrogate criteria from Segment No. 0902 were used for TEXTOX menu 2 at the recommendation of the Standards Implementation Team. Criteria for human health and aquatic life were applied to the screenings of the immediate receiving segments (TEXTOX menu 2) while only human health criteria were applied to the downstream perennial saltwater receiving segments, in accordance with *The Procedures to Implement the Texas Surface Water Quality Standards.*

Data reported in the application for Outfall 001 was screened against the calculated water quality-based effluent limitations presented in Appendix A. Based on the original screening, effluent limitations for free cyanide based on aquatic life criteria for Goose Creek (tidal) would have been required in the draft permit. However, as Table 2 of the application only requires the submission of data for available cyanide as opposed to free cyanide, which is a subpart of available cyanide, the applicant was given the opportunity to re-test for free cyanide to ensure the water quality-based effluent limitation screening was conducted using the correct form of cyanide. Based on the results of the screening using the re-tested data, no new effluent limitations or monitoring requirements are required at this time.

The data reported in the application for Outfall 002 was not screened against the water quality-based effluent limitations presented in Appendix A, because this outfall discharges stormwater. Water quality-based effluent limitations are calculated using critical low flows in the receiving waterbody. Critical low flows cannot occur during or immediately after rainfall events, and therefore cannot be used to calculate water quality-based effluent limitations for stormwater discharges.

The existing limits for *E. coli* at Outfall 001 were based on the presence of domestic wastewater in the discharge and are consistent with the requirements of 30 TAC Chapter 307. These limits are still protective and have been carried forward in the draft permit at Outfall 001.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening
The following discussion applies to Outfall 001 as stormwater discharges (Outfall 002) are typically not screened for water quality-based effluent limitations.

The wastewaters authorized by this permit via Outfall 001 discharge to and travel through unclassified receiving freshwater segments prior to being conveyed to the receiving unclassified and classified saltwater segments (Goose Creek Tidal, and Tabbs Bay). For the purposes of this permit, to ensure the protection of the intermittent and perennial unclassified freshwater segments, surrogate TDS, chloride, and sulfate criteria from classified freshwater Segment No. 0902 was used for this screening. Average concentrations of chloride reported in the original application were less than the respective criteria for Segment No. 0902. Average concentrations of sulfate reported in the original application were greater than the respective criteria for Segment No. 0902, but less than the screening value for sulfate. Average concentrations of TDS in the original application were greater than the TDS screening value for an unclassified intermittent stream.

During the technical review of the application, a significant outlier of 23,100 mg/L of TDS was detected in sample 1 by using the Grubbs' test. Due to the significant outlier, sample 1 was not considered in the screening for TDS. At the request of the Standards Implementation Team, four additional samples were submitted for TDS. Samples 2, 3, and 4; and the four additional samples were screened against the criteria of the receiving waterbody. The results of the screenings for TDS, chloride, and sulfate can be found in Appendix B. As a result of the screenings for TDS, chloride, and sulfate, no limits or monitoring requirements are necessary for these parameters.

pH Screening
The existing permit includes pH limits of 6.0 – 9.0 SU at Outfalls 001 and 002, which discharge 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. These limits have been carried forward in the draft permit.

316(b) Cooling Water Intake Structures
The facility obtains water from the San Jactinto River Authority, a public water system (PWS No. TX1013456), for cooling purposes. The use of water obtained from a public water system for cooling purposes does not constitute the use of a cooling water intake structure; therefore, the facility is not subject to Section 316(b) of the CWA or 40 CFR Part 125, Subpart J.

The Other Requirement No. 3 has been continued from the existing permit and requires the permittee to notify the TCEQ of any changes in the method by which cooling water is obtained. Upon receipt of such notification, the TCEQ may reopen the permit to include additional terms and conditions as necessary.

Whole Effluent Toxicity Testing (Biomonitoring)
Biomonitoring requirements are not included in the draft permit at Outfalls 001 and 002.

The existing permit did not establish biomonitoring requirements and discharges authorized by this permit do not meet the threshold established in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) to impose biomonitoring requirements.

SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

SUMMARY OF CHANGES FROM EXISTING PERMIT

The following additional changes have been made to the draft permit.

1. Pages 3-13 were updated (May 2021 version).
2. The Other Requirements section (beginning on page 14) was rearranged to assist with compliance monitoring.
3. An unnamed ditch was added to the discharge route on page 1 of the draft permit at the recommendation of the Standards Implementation Team via a memo submitted on December 12, 2023.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on October 6, 2023, and additional information received on October 18, 2024.
2. Existing permits: TPDES Permit No. WQ0001914000 issued on April 3, 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: N/A.
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. General Guidance – Industrial Permits: Uncontaminated Stormwater Runoff, EPA, January 1997.

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 Alexander Owens at (512) 239-6707.

Alexander Owens
Alexander Owens

06/24/2025
Date

Appendix A
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/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 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:	Monument Chemical Baytown, LLC
TPDES Permit No.:	WQ001914000
Outfall No.:	001
Prepared by:	Alexander Owens
Date:	07/11/2024

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	unnamed ditch
Perennial Stream/River within 3 Miles:	Goose Creek
Segment No.:	0902
TSS (mg/L):	4
pH (Standard Units):	7.1
Hardness (mg/L as $CaCO_3$):	90
Chloride (mg/L):	88
Effluent Flow for Aquatic Life (MGD):	0.029
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	0.61
% Effluent for Chronic Aquatic Life (Mixing Zone):	6.85
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	0.02
Harmonic Mean Flow (cfs) for perennial:	1.496
% Effluent for Human Health:	2.027
Human Health Criterion (select: PWS, FISH, or INC)	INC

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	173978.75	0.590		1.00	Assumed
Cadmium	6.60	-1.13	831136.22	0.231		1.00	Assumed
Chromium (total)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	375383.87	0.400		1.00	Assumed
Lead	6.45	-0.80	929719.64	0.212		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	222241.83	0.529		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	575278.59	0.303		1.00	Assumed
Zinc	6.10	-0.70	477043.53	0.344		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	FW Acute Criterion (µg/L)	FW Chronic Criterion (µg/L)	WLAa (µg/L)	WLAc (µg/L)	LTAa (µg/L)	LTAc (µg/L)	Daily Avg. (µg/L)	Daily Max. (µg/L)
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	577	3713	330	2859	485	1027
Cadmium	7.7	0.229	33.5	14.4	19.2	11.1	16.3	34.5
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.0584	1.38	0.0450	0.0660	0.139
Chlorpyrifos	0.083	0.041	0.0830	0.598	0.0476	0.461	0.0699	0.147
Chromium (trivalent)	523	68	2430	4613	1392	3552	2046	4329
Chromium (hexavalent)	15.7	10.6	15.7	155	9.00	119	13.2	27.9
Copper	12.9	8.7	32.2	316	18.4	243	27.0	57.3
Cyanide (free)	45.8	10.7	45.8	156	26.2	120	38.5	81.6
4,4'-DDT	1.1	0.001	1.10	0.0146	0.630	0.0112	0.0165	0.0349
Demeton	N/A	0.1	N/A	1.46	N/A	1.12	1.65	3.49
Diazinon	0.17	0.17	0.170	2.48	0.0974	1.91	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	289	34.0	223	49.9	105
Dieldrin	0.24	0.002	0.240	0.0292	0.138	0.0225	0.0330	0.0699
Diuron	210	70	210	1022	120	787	176	374
Endosulfan I (alpha)	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endosulfan II (beta)	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endosulfan sulfate	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endrin	0.086	0.002	0.0860	0.0292	0.0493	0.0225	0.0330	0.0699
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.146	N/A	0.112	0.165	0.349
Heptachlor	0.52	0.004	0.520	0.0584	0.298	0.0450	0.0660	0.139
Hexachlorocyclohexane (gamma) [Lindane]	1.126	0.08	1.13	1.17	0.645	0.899	0.948	2.00
Lead	58	2.24	272	155	156	119	174	370
Malathion	N/A	0.01	N/A	0.146	N/A	0.112	0.165	0.349
Mercury	2.4	1.3	2.40	19.0	1.38	14.6	2.02	4.27
Methoxychlor	N/A	0.03	N/A	0.438	N/A	0.337	0.495	1.04
Mirex	N/A	0.001	N/A	0.0146	N/A	0.0112	0.0165	0.0349
Nickel	428	47.6	809	1312	464	1010	681	1441
Nonylphenol	28	6.6	28.0	96.3	16.0	74.2	23.5	49.8
Parathion (ethyl)	0.065	0.013	0.0650	0.190	0.0372	0.146	0.0547	0.115
Pentachlorophenol	9.6	7.4	9.65	108	5.53	83.2	8.12	17.1
Phenanthrene	30	30	30.0	438	17.2	337	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.204	1.15	0.157	0.231	0.489
Selenium	20	5	20.0	73.0	11.5	56.2	16.8	35.6
Silver	0.8	N/A	19.5	N/A	11.1	N/A	16.3	34.6
Toxaphene	0.78	0.0002	0.780	0.00292	0.447	0.00225	0.00330	0.00699
Tributyltin [TBT]	0.13	0.024	0.130	0.350	0.0745	0.270	0.109	0.231
2,4,5 Trichlorophenol	136	64	136	934	77.9	719	114	242
Zinc	107	108	312	4586	179	3531	262	555

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	56746	52774	77578	164127
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00566	0.00526	0.00773	0.0163
Anthracene	1109	1317	13170	649870	604379	888437	1879619
Antimony	6	1071	10710	528482	491488	722487	1528528
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	286693	266624	391937	829201
Benzidine	0.0015	0.107	1.07	52.8	49.1	72.1	152
Benzo(a)anthracene	0.024	0.025	0.25	12.3	11.5	16.8	35.6
Benzo(a)pyrene	0.0025	0.0025	0.025	1.23	1.15	1.68	3.56
Bis(chloromethyl)ether	0.0024	0.2745	2.745	135	126	185	391
Bis(2-chloroethyl)ether	0.60	42.83	428.3	21134	19655	28892	61126
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	3726	3465	5093	10775
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	135698	126199	185512	392479
Bromoform [Tribromomethane]	66.9	1060	10600	523054	486440	715067	1512829
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	22699	21110	31031	65651
Chlordane	0.0025	0.0025	0.025	1.23	1.15	1.68	3.56
Chlorobenzene	100	2737	27370	1350565	1256026	1846357	3906240
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	90301	83980	123450	261177
Chloroform [Trichloromethane]	70	7697	76970	3798064	3532200	5192333	10985141
Chromium (hexavalent)	62	502	5020	247711	230371	338645	716453
Chrysene	2.45	2.52	25.2	1243	1156	1699	3596
Cresols [Methylphenols]	1041	9301	93010	4589554	4268285	6274379	13274366
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.987	0.918	1.34	2.85
4,4'-DDE	0.00013	0.00013	0.0013	0.0641	0.0597	0.0876	0.185
4,4'-DDT	0.0004	0.0004	0.004	0.197	0.184	0.269	0.570
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	233401	217063	319081	675064
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	2092	1946	2860	6051
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	293601	273049	401382	849182
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	1627883	1513931	2225478	4708325
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	1105	1028	1511	3196
1,2-Dichloroethane	5	364	3640	179615	167042	245551	519499
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	27195858	25292148	37179457	78658579
Dichloromethane [Methylene Chloride]	5	13333	133330	6579134	6118594	8994333	19028828
1,2-Dichloropropane	5	259	2590	127803	118857	174719	369644
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	58720	54610	80276	169836
Dicofol [Kelthane]	0.30	0.30	3	148	138	202	428
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00987	0.00918	0.0134	0.0285
2,4-Dimethylphenol	444	8436	84360	4162722	3871331	5690857	12039840
Di-n-Butyl Phthalate	88.9	92.4	924	45595	42403	62332	131873
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000393	0.0000366	0.0000537	0.000113

Endrin	0.02	0.02	0.2	9.87	9.18	13.4	28.5
Epichlorohydrin	53.5	2013	20130	993310	923778	1357953	2872949
Ethylbenzene	700	1867	18670	921266	856778	1259463	2664578
Ethylene Glycol	46744	1.68E+07	1.68E+08	8289915648	7709621553	1133314368 2	2397692302 8
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.0493	0.0459	0.0674	0.142
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.143	0.133	0.195	0.413
Hexachlorobenzene	0.00068	0.00068	0.0068	0.336	0.312	0.458	0.970
Hexachlorobutadiene	0.21	0.22	2.2	109	101	148	313
Hexachlorocyclohexane (alpha)	0.0078	0.0084	0.084	4.14	3.85	5.66	11.9
Hexachlorocyclohexane (beta)	0.15	0.26	2.6	128	119	175	371
Hexachlorocyclohexane (gamma) [Lindane]	0.2	0.341	3.41	168	156	230	486
Hexachlorocyclopentadiene	10.7	11.6	116	5724	5323	7825	16555
Hexachloroethane	1.84	2.33	23.3	1150	1069	1571	3325
Hexachlorophene	2.05	2.90	29	1431	1331	1956	4138
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	7886276	7334236	10781327	22809475
Lead	1.15	3.83	38.3	8918	8294	12192	25794
Mercury	0.0122	0.0122	0.122	6.02	5.60	8.23	17.4
Methoxychlor	2.92	3.0	30	1480	1377	2023	4281
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	489499781	455234796	669195150	1415780216
Methyl tert-butyl ether [MTBE]	15	10482	104820	5172315	4810253	7071072	14959887
Nickel	332	1140	11400	1062601	988219	1452681	3073360
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	924227	859531	1263510	2673141
N-Nitrosodiethylamine	0.0037	2.1	21	1036	964	1416	2997
N-Nitroso-di-n-Butylamine	0.119	4.2	42	2072	1927	2833	5994
Pentachlorobenzene	0.348	0.355	3.55	175	163	239	506
Pentachlorophenol	0.22	0.29	2.9	143	133	195	413
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.316	0.294	0.431	0.913
Pyridine	23	947	9470	467295	434584	638838	1351556
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	118	110	161	342
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	13002	12092	17775	37606
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	138165	128494	188885	399615
Thallium	0.12	0.23	2.3	113	106	155	328
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	5.43	5.05	7.42	15.6
2,4,5-TP [Silvex]	50	369	3690	182082	169336	248924	526635
1,1,1-Trichloroethane	200	784354	7843540	387037411	359944792	529118844	1119428302
1,1,2-Trichloroethane	5	166	1660	81912	76178	111982	236914
Trichloroethylene [Trichloroethene]	5	71.9	719	35479	32995	48503	102615
2,4,5-Trichlorophenol	1039	1867	18670	921266	856778	1259463	2664578
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	8142	7572	11130	23548

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	1.76	2.14
Aluminum	584	709

Arsenic	339	412
Cadmium	11.4	13.8
Carbaryl	1.17	1.43
Chlordane	0.0462	0.0561
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	1432	1739
Chromium (hexavalent)	9.25	11.2
Copper	18.9	23.0
Cyanide (free)	27.0	32.7
4,4'-DDT	0.0115	0.0140
Demeton	1.15	1.40
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.0231	0.0280
Diuron	123	150
Endosulfan I (alpha)	0.129	0.157
Endosulfan II (beta)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0231	0.0280
Guthion [Azinphos Methyl]	0.115	0.140
Heptachlor	0.0462	0.0561
Hexachlorocyclohexane (gamma) [Lindane]	0.663	0.806
Lead	122	148
Malathion	0.115	0.140
Mercury	1.41	1.71
Methoxychlor	0.346	0.421
Mirex	0.0115	0.0140
Nickel	477	579
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	5.68	6.90
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.161	0.196
Selenium	11.7	14.3
Silver	11.4	13.9
Toxaphene	0.00231	0.00280
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	183	223

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	54304	65941
Aldrin	0.00541	0.00657
Anthracene	621906	755171
Antimony	505741	614114
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	274356	333147
Benzidine	50.5	61.3
Benzo(a)anthracene	11.8	14.3
Benzo(a)pyrene	1.18	1.43

Bis(chloromethyl)ether	129	157
Bis(2-chloroethyl)ether	20224	24558
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	3565	4329
Bromodichloromethane [Dichlorobromomethane]	129858	157685
Bromoform [Tribromomethane]	500547	607807
Cadmium	N/A	N/A
Carbon Tetrachloride	21721	26376
Chlordane	1.18	1.43
Chlorobenzene	1292450	1569404
Chlorodibromomethane [Dibromochloromethane]	86415	104932
Chloroform [Trichloromethane]	3634633	4413483
Chromium (hexavalent)	237051	287848
Chrysene	1189	1444
Cresols [Methylphenols]	4392065	5333222
Cyanide (free)	N/A	N/A
4,4'-DDD	0.944	1.14
4,4'-DDE	0.0613	0.0745
4,4'-DDT	0.188	0.229
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	223357	271219
1,2-Dibromoethane [Ethylene Dibromide]	2002	2431
m-Dichlorobenzene [1,3-Dichlorobenzene]	280967	341174
o-Dichlorobenzene [1,2-Dichlorobenzene]	1557835	1891656
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	1057	1284
1,2-Dichloroethane	171886	208718
1,1-Dichloroethylene [1,1-Dichloroethene]	26025620	31602538
Dichloromethane [Methylene Chloride]	6296033	7645183
1,2-Dichloropropane	122303	148511
1,3-Dichloropropene [1,3-Dichloropropylene]	56193	68234
Dicofol [Kelthane]	141	172
Dieldrin	0.00944	0.0114
2,4-Dimethylphenol	3983600	4837228
Di-n-Butyl Phthalate	43632	52982
Dioxins/Furans [TCDD Equivalents]	0.0000376	0.0000457
Endrin	9.44	11.4
Epichlorohydrin	950567	1154260
Ethylbenzene	881624	1070543
Ethylene Glycol	7933200577	9633172130
Fluoride	N/A	N/A
Heptachlor	0.0472	0.0573
Heptachlor Epoxide	0.136	0.166
Hexachlorobenzene	0.321	0.389
Hexachlorobutadiene	103	126
Hexachlorocyclohexane (alpha)	3.96	4.81
Hexachlorocyclohexane (beta)	122	149
Hexachlorocyclohexane (gamma) [Lindane]	161	195
Hexachlorocyclopentadiene	5477	6651
Hexachloroethane	1100	1336
Hexachlorophene	1369	1662
4,4'-Isopropylidenediphenol [Bisphenol A]	7546929	9164128
Lead	8534	10363
Mercury	5.76	6.99
Methoxychlor	1416	1720

Methyl Ethyl Ketone	468436605	568815878
Methyl tert-butyl ether [MTBE]	4949750	6010411
Nickel	1016877	1234779
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	884457	1073984
N-Nitrosodiethylamine	991	1204
N-Nitroso-di-n-Butylamine	1983	2408
Pentachlorobenzene	167	203
Pentachlorophenol	136	166
Polychlorinated Biphenyls [PCBs]	0.302	0.366
Pyridine	447186	543012
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	113	137
1,1,2,2-Tetrachloroethane	12442	15109
Tetrachloroethylene [Tetrachloroethylene]	132220	160552
Thallium	108	131
Toluene	N/A	N/A
Toxaphene	5.19	6.30
2,4,5-TP [Silvex]	174247	211585
1,1,1-Trichloroethane	370383190	449751017
1,1,2-Trichloroethane	78387	95184
Trichloroethylene [Trichloroethene]	33952	41227
2,4,5-Trichlorophenol	881624	1070543
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	7791	9461

TEXTOX MENU #6 - 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 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
Draft "Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, 2022

PERMIT INFORMATION

Permittee Name:	Monument Chemical Baytown, LLC
TPDES Permit No:	WQ0001914000
Outfall No:	001
Prepared by:	Alexander Owens
Date:	07/11/2024

DISCHARGE INFORMATION

Receiving Waterbody:	Goose Creek (tidal)
Segment No.:	2426
TSS (mg/L):	14
Effluent Flow for Aquatic Life (MGD):	0.029
Critical Low Flow [7Q2] (cfs):	0.61
% Effluent for Chronic Aquatic Life (Mixing Zone):	8.00
% Effluent for Acute Aquatic Life (ZID):	30.00
Effluent Flow for Human Health (MGD):	0.02
Harmonic Mean Flow (cfs):	1.46
% Effluent for Human Health:	4.00

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

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	10587.36	0.871		1.00	Assumed
Lead	6.06	-0.85	121840.36	0.370		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	102769.74	0.410		1.00	Assumed
Zinc	5.36	-0.52	58078.24	0.552		1.00	Assumed

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	2875	2674	3930	8315
Aldrin	1.147E-05	0.000287	0.000267	0.000392	0.000829
Anthracene	1317	32925	30620	45011	95228
Antimony	1071	26775	24901	36604	77441
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	14525	13508	19857	42010
Benzidine	0.107	2.68	2.49	3.65	7.73
Benzo(a)anthracene	0.025	0.625	0.581	0.854	1.80
Benzo(a)pyrene	0.0025	0.0625	0.0581	0.0854	0.180
Bis(chloromethyl)ether	0.2745	6.86	6.38	9.38	19.8
Bis(2-chloroethyl)ether	42.83	1071	996	1463	3096
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	189	176	258	545
Bromodichloromethane [Dichlorobromomethane]	275	6875	6394	9398	19884
Bromoform [Tribromomethane]	1060	26500	24645	36228	76645
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	1150	1070	1572	3326
Chlordane	0.0025	0.0625	0.0581	0.0854	0.180
Chlorobenzene	2737	68425	63635	93543	197905
Chlorodibromomethane [Dibromochloromethane]	183	4575	4255	6254	13232
Chloroform [Trichloromethane]	7697	192425	178955	263064	556550
Chromium (hexavalent)	502	12550	11672	17157	36298
Chrysene	2.52	63.0	58.6	86.1	182
Cresols [Methylphenols]	9301	232525	216248	317884	672532
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.0500	0.0465	0.0683	0.144
4,4'-DDE	0.00013	0.00325	0.00302	0.00444	0.00939
4,4'-DDT	0.0004	0.0100	0.00930	0.0136	0.0289
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	11825	10997	16165	34201
1,2-Dibromoethane [Ethylene Dibromide]	4.24	106	98.6	144	306
m-Dichlorobenzene [1,3-Dichlorobenzene]	595	14875	13834	20335	43022
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	82475	76702	112751	238542
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	56.0	52.1	76.5	161
1,2-Dichloroethane	364	9100	8463	12440	26319
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	1377850	1281401	1883658	3985155
Dichloromethane [Methylene Chloride]	13333	333325	309992	455688	964075
1,2-Dichloropropane	259	6475	6022	8851	18727
1,3-Dichloropropene [1,3-Dichloropropylene]	119	2975	2767	4067	8604
Dicofol [Kelthane]	0.30	7.50	6.98	10.2	21.6
Dieldrin	2.0E-05	0.000500	0.000465	0.000683	0.00144
2,4-Dimethylphenol	8436	210900	196137	288321	609986
Di-n-Butyl Phthalate	92.4	2310	2148	3158	6681

Dioxins/Furans [TCDD Equivalents]	7.97E-08	0.0000020	0.0000019	0.0000027	0.0000058
Endrin	0.02	0.500	0.465	0.683	1.44
Epichlorohydrin	2013	50325	46802	68799	145554
Ethylbenzene	1867	46675	43408	63809	134998
Ethylene Glycol	1.68E+07	420000000	390600000	574182000	1214766000
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.00250	0.00233	0.00341	0.00723
Heptachlor Epoxide	0.00029	0.00725	0.00674	0.00991	0.0209
Hexachlorobenzene	0.00068	0.0170	0.0158	0.0232	0.0491
Hexachlorobutadiene	0.22	5.50	5.12	7.51	15.9
Hexachlorocyclohexane (alpha)	0.0084	0.210	0.195	0.287	0.607
Hexachlorocyclohexane (beta)	0.26	6.50	6.05	8.88	18.7
Hexachlorocyclohexane (gamma) [Lindane]	0.341	8.53	7.93	11.6	24.6
Hexachlorocyclopentadiene	11.6	290	270	396	838
Hexachloroethane	2.33	58.3	54.2	79.6	168
Hexachlorophene	2.90	72.5	67.4	99.1	209
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	399550	371582	546224	1155618
Lead	3.83	259	241	354	749
Mercury	0.0250	0.625	0.581	0.854	1.80
Methoxychlor	3.0	75.0	69.8	102	216
Methyl Ethyl Ketone	9.92E+05	24800000	23064000	33904080	71729040
Methyl tert-butyl ether [MTBE]	10482	262050	243707	358248	757927
Nickel	1140	28500	26505	38962	82430
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	46825	43547	64014	135431
N-Nitrosodiethylamine	2.1	52.5	48.8	71.7	151
N-Nitroso-di-n-Butylamine	4.2	105	97.7	143	303
Pentachlorobenzene	0.355	8.88	8.25	12.1	25.6
Pentachlorophenol	0.29	7.25	6.74	9.91	20.9
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.0160	0.0149	0.0218	0.0462
Pyridine	947	23675	22018	32366	68475
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	6.00	5.58	8.20	17.3
1,1,2,2-Tetrachloroethane	26.35	659	613	900	1905
Tetrachloroethylene [Tetrachloroethylene]	280	7000	6510	9569	20246
Thallium	0.23	5.75	5.35	7.86	16.6
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.275	0.256	0.375	0.795
2,4,5-TP [Silvex]	369	9225	8579	12611	26681
1,1,1-Trichloroethane	784354	19608850	18236231	26807258	56714676
1,1,2-Trichloroethane	166	4150	3860	5673	12003
Trichloroethylene [Trichloroethene]	71.9	1798	1672	2457	5198
2,4,5-Trichlorophenol	1867	46675	43408	63809	134998
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	413	384	563	1193

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

Human Health	*70% of Daily Avg.*	*85% of Daily Avg.*
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2751	3340
Aldrin	0.000274	0.000333
Anthracene	31508	38260
Antimony	25622	31113
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	13899	16878
Benzidine	2.55	3.10
Benzo(a)anthracene	0.598	0.726
Benzo(a)pyrene	0.0598	0.0726
Bis(chloromethyl)ether	6.56	7.97
Bis(2-chloroethyl)ether	1024	1244
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	180	219
Bromodichloromethane [Dichlorobromomethane]	6579	7988
Bromoform [Tribromomethane]	25359	30793
Cadmium	N/A	N/A
Carbon Tetrachloride	1100	1336
Chlordane	0.0598	0.0726
Chlorobenzene	65480	79512
Chlorodibromomethane [Dibromochloromethane]	4378	5316
Chloroform [Trichloromethane]	184144	223604
Chromium (hexavalent)	12009	14583
Chrysene	60.2	73.2
Cresols [Methylphenols]	222519	270202
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0478	0.0581
4,4'-DDE	0.00311	0.00377
4,4'-DDT	0.00956	0.0116
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	11316	13741
1,2-Dibromoethane [Ethylene Dibromide]	101	123
m-Dichlorobenzene [1,3-Dichlorobenzene]	14234	17285
o-Dichlorobenzene [1,2-Dichlorobenzene]	78926	95838
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	53.5	65.0
1,2-Dichloroethane	8708	10574
1,1-Dichloroethylene [1,1-Dichloroethene]	1318561	1601109
Dichloromethane [Methylene Chloride]	318982	387335
1,2-Dichloropropane	6196	7524
1,3-Dichloropropene [1,3-Dichloropropylene]	2846	3457
Dicofol [Kelthane]	7.17	8.71
Dieldrin	0.000478	0.000581
2,4-Dimethylphenol	201824	245073
Di-n-Butyl Phthalate	2210	2684
Dioxins/Furans [TCDD Equivalents]	0.0000019	0.0000023
Endrin	0.478	0.581
Epichlorohydrin	48159	58479
Ethylbenzene	44666	54237
Ethylene Glycol	401927400	488054700

Fluoride	N/A	N/A
Heptachlor	0.00239	0.00290
Heptachlor Epoxide	0.00693	0.00842
Hexachlorobenzene	0.0162	0.0197
Hexachlorobutadiene	5.26	6.39
Hexachlorocyclohexane (alpha)	0.200	0.244
Hexachlorocyclohexane (beta)	6.22	7.55
Hexachlorocyclohexane (gamma) [Lindane]	8.15	9.90
Hexachlorocyclopentadiene	277	336
Hexachloroethane	55.7	67.6
Hexachlorophene	69.3	84.2
4,4'-Isopropylidenediphenol [Bisphenol A]	382357	464291
Lead	247	301
Mercury	0.598	0.726
Methoxychlor	71.7	87.1
Methyl Ethyl Ketone	23732856	28818468
Methyl tert-butyl ether [MTBE]	250773	304511
Nickel	27273	33117
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	44810	54412
N-Nitrosodiethylamine	50.2	61.0
N-Nitroso-di-n-Butylamine	100	122
Pentachlorobenzene	8.49	10.3
Pentachlorophenol	6.93	8.42
Polychlorinated Biphenyls [PCBs]	0.0153	0.0185
Pyridine	22656	27511
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5.74	6.97
1,1,2,2-Tetrachloroethane	630	765
Tetrachloroethylene [Tetrachloroethylene]	6698	8134
Thallium	5.50	6.68
Toluene	N/A	N/A
Toxaphene	0.263	0.319
2,4,5-TP [Silvex]	8828	10719
1,1,1-Trichloroethane	18765081	22786170
1,1,2-Trichloroethane	3971	4822
Trichloroethylene [Trichloroethene]	1720	2088
2,4,5-Trichlorophenol	44666	54237
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	394	479

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/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 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:	Monument Chemical Baytown, LLC
TPDES Permit No.:	WQ001914000
Outfall No.:	001
Prepared by:	Alexander Owens
Date:	07/11/2024

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	unnamed ditch
Perennial Stream/River within 3 Miles:	Goose Creek
Segment No.:	0902
TSS (mg/L):	4
pH (Standard Units):	7.1
Hardness (mg/L as $CaCO_3$):	90
Chloride (mg/L):	88
Effluent Flow for Aquatic Life (MGD):	0.029
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	0.61
% Effluent for Chronic Aquatic Life (Mixing Zone):	6.85
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	0.02
Harmonic Mean Flow (cfs) for perennial:	1.496
% Effluent for Human Health:	2.027
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

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	173978.75	0.590		1.00	Assumed
Cadmium	6.60	-1.13	831136.22	0.231		1.00	Assumed
Chromium (total)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	912187.69	0.215		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	375383.87	0.400		1.00	Assumed
Lead	6.45	-0.80	929719.64	0.212		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	222241.83	0.529		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	575278.59	0.303		1.00	Assumed
Zinc	6.10	-0.70	477043.53	0.344		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	577	3713	330	2859	485	1027
Cadmium	7.7	0.229	33.5	14.4	19.2	11.1	16.3	34.5
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.0584	1.38	0.0450	0.0660	0.139
Chlorpyrifos	0.083	0.041	0.0830	0.598	0.0476	0.461	0.0699	0.147
Chromium (trivalent)	523	68	2430	4613	1392	3552	2046	4329
Chromium (hexavalent)	15.7	10.6	15.7	155	9.00	119	13.2	27.9
Copper	12.9	8.7	32.2	316	18.4	243	27.0	57.3
Cyanide (free)	45.8	10.7	45.8	156	26.2	120	38.5	81.6
4,4'-DDT	1.1	0.001	1.10	0.0146	0.630	0.0112	0.0165	0.0349
Demeton	N/A	0.1	N/A	1.46	N/A	1.12	1.65	3.49
Diazinon	0.17	0.17	0.170	2.48	0.0974	1.91	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	289	34.0	223	49.9	105
Dieldrin	0.24	0.002	0.240	0.0292	0.138	0.0225	0.0330	0.0699
Diuron	210	70	210	1022	120	787	176	374
Endosulfan I (*alpha*)	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endosulfan II (*beta*)	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endosulfan sulfate	0.22	0.056	0.220	0.817	0.126	0.629	0.185	0.392
Endrin	0.086	0.002	0.0860	0.0292	0.0493	0.0225	0.0330	0.0699
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.146	N/A	0.112	0.165	0.349
Heptachlor	0.52	0.004	0.520	0.0584	0.298	0.0450	0.0660	0.139
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	1.17	0.645	0.899	0.948	2.00
Lead	58	2.24	272	155	156	119	174	370
Malathion	N/A	0.01	N/A	0.146	N/A	0.112	0.165	0.349
Mercury	2.4	1.3	2.40	19.0	1.38	14.6	2.02	4.27
Methoxychlor	N/A	0.03	N/A	0.438	N/A	0.337	0.495	1.04
Mirex	N/A	0.001	N/A	0.0146	N/A	0.0112	0.0165	0.0349
Nickel	428	47.6	809	1312	464	1010	681	1441
Nonylphenol	28	6.6	28.0	96.3	16.0	74.2	23.5	49.8
Parathion (ethyl)	0.065	0.013	0.0650	0.190	0.0372	0.146	0.0547	0.115
Pentachlorophenol	9.6	7.4	9.65	108	5.53	83.2	8.12	17.1
Phenanthrene	30	30	30.0	438	17.2	337	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.204	1.15	0.157	0.231	0.489
Selenium	20	5	20.0	73.0	11.5	56.2	16.8	35.6

Silver	0.8	N/A	19.5	N/A	11.1	N/A	16.3	34.6
Toxaphene	0.78	0.0002	0.780	0.00292	0.447	0.00225	0.00330	0.00699
Tributyltin [TBT]	0.13	0.024	0.130	0.350	0.0745	0.270	0.109	0.231
2,4,5 Trichlorophenol	136	64	136	934	77.9	719	114	242
Zinc	107	108	312	4586	179	3531	262	555

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	5675	5277	7757	16412
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000566	0.000526	0.000773	0.00163
Anthracene	1109	1317	13170	64987	60438	88843	187961
Antimony	6	1071	10710	52848	49149	72248	152852
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	28669	26662	39193	82920
Benzidine	0.0015	0.107	1.07	5.28	4.91	7.21	15.2
Benzo(*a*)anthracene	0.024	0.025	0.25	1.23	1.15	1.68	3.56
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.123	0.115	0.168	0.356
Bis(chloromethyl)ether	0.0024	0.2745	2.745	13.5	12.6	18.5	39.1
Bis(2-chloroethyl)ether	0.60	42.83	428.3	2113	1965	2889	6112
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	373	346	509	1077
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	13570	12620	18551	39247
Bromoform [Tribromomethane]	66.9	1060	10600	52305	48644	71506	151282
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	2270	2111	3103	6565
Chlordane	0.0025	0.0025	0.025	0.123	0.115	0.168	0.356
Chlorobenzene	100	2737	27370	135057	125603	184635	390624
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	9030	8398	12345	26117
Chloroform [Trichloromethane]	70	7697	76970	379806	353220	519233	1098514
Chromium (hexavalent)	62	502	5020	24771	23037	33864	71645
Chrysene	2.45	2.52	25.2	124	116	169	359
Cresols [Methylphenols]	1041	9301	93010	458955	426829	627437	1327436
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.0987	0.0918	0.134	0.285
4,4'-DDE	0.00013	0.00013	0.0013	0.00641	0.00597	0.00876	0.0185
4,4'-DDT	0.0004	0.0004	0.004	0.0197	0.0184	0.0269	0.0570
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	23340	21706	31908	67506
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	209	195	286	605

m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	29360	27305	40138	84918
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	162788	151393	222547	470832
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	111	103	151	319
1,2-Dichloroethane	5	364	3640	17961	16704	24555	51949
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	2719586	2529215	3717945	7865857
Dichloromethane [Methylene Chloride]	5	13333	133330	657913	611859	899433	1902882
1,2-Dichloropropane	5	259	2590	12780	11886	17471	36964
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	5872	5461	8027	16983
Dicofol [Kelthane]	0.30	0.30	3	14.8	13.8	20.2	42.8
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000987	0.000918	0.00134	0.00285
2,4-Dimethylphenol	444	8436	84360	416272	387133	569085	1203984
Di-*n*-Butyl Phthalate	88.9	92.4	924	4559	4240	6233	13187
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000039	0.0000037	0.0000054	0.0000113
Endrin	0.02	0.02	0.2	0.987	0.918	1.34	2.85
Epichlorohydrin	53.5	2013	20130	99331	92378	135795	287294
Ethylbenzene	700	1867	18670	92127	85678	125946	266457
Ethylene Glycol	46744	1.68E+07	1.68E+08	828991565	770962155	1133314368	2397692302
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00493	0.00459	0.00674	0.0142
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0143	0.0133	0.0195	0.0413
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0336	0.0312	0.0458	0.0970
Hexachlorobutadiene	0.21	0.22	2.2	10.9	10.1	14.8	31.3
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.414	0.385	0.566	1.19
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	12.8	11.9	17.5	37.1
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	16.8	15.6	23.0	48.6
Hexachlorocyclopentadiene	10.7	11.6	116	572	532	782	1655
Hexachloroethane	1.84	2.33	23.3	115	107	157	332
Hexachlorophene	2.05	2.90	29	143	133	195	413
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	788628	733424	1078132	2280947
Lead	1.15	3.83	38.3	892	829	1219	2579
Mercury	0.0122	0.0122	0.122	0.602	0.560	0.823	1.74
Methoxychlor	2.92	3.0	30	148	138	202	428
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	48949978	45523480	66919515	141578021
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	517232	481025	707107	1495988
Nickel	332	1140	11400	106260	98822	145268	307336
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	92423	85953	126351	267314
N-Nitrosodiethylamine	0.0037	2.1	21	104	96.4	141	299
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	207	193	283	599
Pentachlorobenzene	0.348	0.355	3.55	17.5	16.3	23.9	50.6
Pentachlorophenol	0.22	0.29	2.9	14.3	13.3	19.5	41.3

Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0316	0.0294	0.0431	0.0913
Pyridine	23	947	9470	46729	43458	63883	135155
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	11.8	11.0	16.1	34.2
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	1300	1209	1777	3760
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	13817	12849	18888	39961
Thallium	0.12	0.23	2.3	11.3	10.6	15.5	32.8
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.543	0.505	0.742	1.56
2,4,5-TP [Silvex]	50	369	3690	18208	16934	24892	52663
1,1,1-Trichloroethane	200	784354	7843540	38703741	35994479	52911884	111942830
1,1,2-Trichloroethane	5	166	1660	8191	7618	11198	23691
Trichloroethylene [Trichloroethene]	5	71.9	719	3548	3300	4850	10261
2,4,5-Trichlorophenol	1039	1867	18670	92127	85678	125946	266457
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	814	757	1113	2354

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	1.76	2.14
Aluminum	584	709
Arsenic	339	412
Cadmium	11.4	13.8
Carbaryl	1.17	1.43
Chlordane	0.0462	0.0561
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	1432	1739
Chromium (hexavalent)	9.25	11.2
Copper	18.9	23.0
Cyanide (free)	27.0	32.7
4,4'-DDT	0.0115	0.0140
Demeton	1.15	1.40
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.0231	0.0280
Diuron	123	150
Endosulfan I (*alpha*)	0.129	0.157
Endosulfan II (*beta*)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0231	0.0280
Guthion [Azinphos Methyl]	0.115	0.140
Heptachlor	0.0462	0.0561
Hexachlorocyclohexane (*gamma*) [Lindane]	0.663	0.806
Lead	122	148
Malathion	0.115	0.140
Mercury	1.41	1.71
Methoxychlor	0.346	0.421
Mirex	0.0115	0.0140
Nickel	477	579
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	5.68	6.90
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.161	0.196
Selenium	11.7	14.3
Silver	11.4	13.9
Toxaphene	0.00231	0.00280
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	183	223

Human Health	*70% of Daily Avg.*	*85% of Daily Avg.*
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	5430	6594
Aldrin	0.000541	0.000657
Anthracene	62190	75517
Antimony	50574	61411
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	27435	33314
Benzidine	5.05	6.13
Benzo(*a*)anthracene	1.18	1.43
Benzo(*a*)pyrene	0.118	0.143

Bis(chloromethyl)ether	12.9	15.7
Bis(2-chloroethyl)ether	2022	2455
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	356	432
Bromodichloromethane [Dichlorobromomethane]	12985	15768
Bromoform [Tribromomethane]	50054	60780
Cadmium	N/A	N/A
Carbon Tetrachloride	2172	2637
Chlordane	0.118	0.143
Chlorobenzene	129245	156940
Chlorodibromomethane [Dibromochloromethane]	8641	10493
Chloroform [Trichloromethane]	363463	441348
Chromium (hexavalent)	23705	28784
Chrysene	118	144
Cresols [Methylphenols]	439206	533322
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0944	0.114
4,4'-DDE	0.00613	0.00745
4,4'-DDT	0.0188	0.0229
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	22335	27121
1,2-Dibromoethane [Ethylene Dibromide]	200	243
m-Dichlorobenzene [1,3-Dichlorobenzene]	28096	34117
o-Dichlorobenzene [1,2-Dichlorobenzene]	155783	189165
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	105	128
1,2-Dichloroethane	17188	20871
1,1-Dichloroethylene [1,1-Dichloroethene]	2602562	3160253
Dichloromethane [Methylene Chloride]	629603	764518
1,2-Dichloropropane	12230	14851
1,3-Dichloropropene [1,3-Dichloropropylene]	5619	6823
Dicofol [Kelthane]	14.1	17.2
Dieldrin	0.000944	0.00114
2,4-Dimethylphenol	398360	483722
Di-*n*-Butyl Phthalate	4363	5298
Dioxins/Furans [TCDD Equivalents]	0.0000038	0.0000046
Endrin	0.944	1.14
Epichlorohydrin	95056	115426
Ethylbenzene	88162	107054
Ethylene Glycol	793320057	963317213
Fluoride	N/A	N/A
Heptachlor	0.00472	0.00573
Heptachlor Epoxide	0.0136	0.0166
Hexachlorobenzene	0.0321	0.0389
Hexachlorobutadiene	10.3	12.6
Hexachlorocyclohexane (*alpha*)	0.396	0.481
Hexachlorocyclohexane (*beta*)	12.2	14.9
Hexachlorocyclohexane (*gamma*) [Lindane]	16.1	19.5
Hexachlorocyclopentadiene	547	665
Hexachloroethane	110	133
Hexachlorophene	136	166
4,4'-Isopropylidenediphenol [Bisphenol A]	754692	916412
Lead	853	1036
Mercury	0.576	0.699
Methoxychlor	141	172
Methyl Ethyl Ketone	46843660	56881587
Methyl *tert*-butyl ether [MTBE]	494975	601041
Nickel	101687	123477
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	88445	107398

N-Nitrosodiethylamine	99.1	120
N-Nitroso-di-*n*-Butylamine	198	240
Pentachlorobenzene	16.7	20.3
Pentachlorophenol	13.6	16.6
Polychlorinated Biphenyls [PCBs]	0.0302	0.0366
Pyridine	44718	54301
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	11.3	13.7
1,1,2,2-Tetrachloroethane	1244	1510
Tetrachloroethylene [Tetrachloroethylene]	13222	16055
Thallium	10.8	13.1
Toluene	N/A	N/A
Toxaphene	0.519	0.630
2,4,5-TP [Silvex]	17424	21158
1,1,1-Trichloroethane	37038319	44975101
1,1,2-Trichloroethane	7838	9518
Trichloroethylene [Trichloroethene]	3395	4122
2,4,5-Trichlorophenol	88162	107054
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	779	946

Appendix B
TDS, Chloride, and Sulfate Screening Calculations

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:	**Monument Chemicals Baytown, LLC**
Permit Number, Outfall:	**01914-000**
Segment Number:	**2426 (0902), Tabbs Bayou**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	**700**	mg/L	2022 TSWQS, Appendix A
Cl CC - segment criterion - chloride	**200**	mg/L	2022 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	**150**	mg/L	2022 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	**865**	mg/L	Permit application
Cl CE - average effluent concentration - chloride	**59.5**	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	**287.8**	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} = 3500 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 but ≤ 6,000 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	865	mg/L	Permit application
TDS Csv - TDS screening value	**3500**	mg/L	Determined above

No control measures needed if:	865	≤	3500
Consider control measures if:	865	>	3500

No control measures needed for TDS

Permit Limit Calculations

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	6425.09
Calculate the LTA	LTA = WLA * 0.93	5975.33
Calculate the daily average	Daily Avg. = LTA * 1.47	**8783.73**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**18583.27**
Calculate 70% of the daily average	70% of Daily Avg. =	6148.61
Calculate 85% of the daily average	85% of Daily Avg. =	7466.17

No permit limitations needed if:	**287.8**	**≤**	**6148.61**		
Reporting needed if:	**287.8**	**>**	**6148.61**	**but ≤**	**7466.17**
Permit limits may be needed if:	**287.8**	**>**	**7466.17**		

No permit limitations 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 Perennial Stream

Applicant Name:	**Monument Chemicals Baytown, LLC**
Permit Number, Outfall:	**01914-000**
Segment Number:	**2426 (0902) - Tabbs Bay**

Enter values needed for screening:			Data Source (edit if different)
QE - Average effluent flow	**0.02**	MGD	2 year flow data per cc memo
QS - Perennial stream harmonic mean flow	**1.46**	cfs	Critical conditions memo
QE - Average effluent flow	**0.0309**	cfs	Calculated
CA - TDS - ambient segment concentration	**373**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**83**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**17**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**700**	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	**200**	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	**150**	mg/L	2022 TSWQS, Appendix A
CE - TDS - average effluent concentration	**865**	mg/L	Permit application
CE - chloride - average effluent concentration	**59.5**	mg/L	Permit application
CE - sulfate - average effluent concentration	**287.8**	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	16128.22
Calculate the LTA	LTA = WLA * 0.93	14999.24
Calculate the daily average	Daily Avg. = LTA * 1.47	**22048.89**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**46647.64**
Calculate 70% of the daily average	70% of Daily Avg. =	15434.22
Calculate 85% of the daily average	85% of Daily Avg. =	18741.55

No permit limitations needed if:	**865**	**≤**	**15434.22**		
Reporting needed if:	**865**	**>**	**15434.22**	**but ≤**	**18741.55**
Permit limits may be needed if:	**865**	**>**	**18741.55**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	5720.19
Calculate the LTA	LTA = WLA * 0.93	5319.77
Calculate the daily average	Daily Avg. = LTA * 1.47	**7820.07**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**16544.50**
Calculate 70% of the daily average	70% of Daily Avg. =	5474.05
Calculate 85% of the daily average	85% of Daily Avg. =	6647.06

No permit limitations needed if:	**59.5**	**≤**	**5474.05**		
Reporting needed if:	**59.5**	**>**	**5474.05**	**but ≤**	**6647.06**

Permit limits may be needed if:	**59.5**	**>**	**6647.06**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	6425.09
Calculate the LTA	LTA = WLA * 0.93	5975.33
Calculate the daily average	Daily Avg. = LTA * 1.47	**8783.73**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**18583.27**
Calculate 70% of the daily average	70% of Daily Avg. =	6148.61
Calculate 85% of the daily average	85% of Daily Avg. =	7466.17

No permit limitations needed if:	**287.8**	**≤**	**6148.61**		
Reporting needed if:	**287.8**	**>**	**6148.61**	**but ≤**	**7466.17**
Permit limits may be needed if:	**287.8**	**>**	**7466.17**		

No permit limitations needed for sulfate

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), calculated/ assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	*Pollutant*	*Technology-Based*		*Water Quality-Based*		*Existing 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	-	-	-	-	**0.060 MGD**	**0.080 MGD**
	BOD_5	-	-	10	25	**10**	**25**
	TSS	-	-	15	40	**15**	**40**
	COD	-	-	-	150	**-**	**150**
	Oil and Grease	-	-	10	15	**10**	**15**
	E. Coli	-	-	126	394	**126**	**394**
	Chlorine Residual	-	-	-	4.0	**-**	**4.0**
	pH	6.0 SU (minimum)	9.0 SU (maximum)	-	-	**6.0 SU (minimum)**	**9.0 SU (maximum)**
002	Flow	Report, MGD	Report, MGD	-	-	**Report, MGD**	**Report, MGD**
	COD	-	200	-	-	**-**	**200**
	Oil and Grease	-	15	-	-	**-**	**15**
	Total Phenols	-	0.05	-	-	**-**	**0.05**
	pH	6.0 SU (minimum)	9.0 SU (maximum)	-	-	**6.0 (minimum)**	**9.0 SU (maximum)**

INDUSTRIAL EPA REVIEW CHECKLIST

Permittee Name: Monument Chemical Baytown, LLC

Permittee Number: WQ0001914000

IS THIS A MINOR AMENDMENT WITHOUT RENEWAL?

☐ **EPA review is waived per the MOA**, because this is a minor amendment without renewal. SKIP TO THE END.

For all other application types, check all that apply:

Yes	No	
☐	☒	discharge to territorial seas (within 3 miles of the coastline) of the United States?
☐	☒	discharge or sewage sludge management may affect another state or the Republic of Mexico? For sewage sludge management, "may affect" means accepts sewage sludge from another state or Mexico. For discharge, it means a discharge within 3 miles of a boundary with another state or Mexico.
☐	☒	discharge of uncontaminated cooling tower blowdown with a permitted daily average flow >500 MGD?
☐	☒	discharge from a designated major facility?
☐	☒	discharge from a categorical industry as listed in 40 CFR Part 122, Appendix A? (see Attachment A)
☐	☒	discharge from source other than a categorical industry as listed in 40 CFR Part 122, Appendix A with a permitted daily average flow >0.5 MGD, except for facilities that discharge non-process wastewater? Non-process wastewater is water that (during manufacturing or processing) does not come into direct contact with, or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
☐	☒	minor facility discharge to critical concern species watersheds (see WQ Standards review)
☐	☒	(Prior to a final TMDL) discharge from a new or expanding facility to a 303(d) listed segment which has the potential to discharge any pollutant which is causing or contributing to the impairment of the segment?
☐	☒	(After a final TMDL) discharge from a new or expanding discharge to a 303(d) listed segment where the TMDL does not allocate the loadings described in the draft permit?
☐	☒	(After a final TMDL) a permit with effluent limits which allow loadings in excess of those prescribed by the TMDL for the segment?
☐	☒	(After a final TMDL) permit allows a three-year compliance schedule for limits based on the TMDL allocations?
☐	☒	Is the main purpose of the facility to desalinate either seawater or salty ground water?
☐	☒	**Other:**

Per the screening above, choose one:

☐ **Yes, EPA review is required.** ☒ No, EPA review is not required.

Alexander Owens
Permit Writer's Name

06/24/2025
Date

ATTACHMENT A

PRIMARY INDUSTRIAL CATEGORIES

Adhesives and sealants	N/A
Aluminum forming	**Part 467**
Auto and other laundries	N/A
Battery and manufacturing	**Part 461**
Coal mining	**Part 434**
Coil coating	**Part 465**
Copper forming	**Part 468**
Electrical and electronic components	**Part 469**
Electroplating	**Part 413**
Explosives manufacturing	**Part 457**
Foundries	N/A
Gum and wood chemicals	**Part 454**
Inorganic chemicals manufacturing	**Part 415**
Iron and steel manufacturing	**Part 420**
Leather tanning and finishing	**Part 425**
Mechanical products manufacturing	N/A
Nonferrous metals manufacturing	**Part 421**
Ore mining	**Part 440**
Organic chemicals manufacturing	**Part 414**
Paint and ink formulation	**Part 446**
Pesticides	**Part 455**
Petroleum refining	**Part 419**
Pharmaceutical preparation	**Part 439**
Photographic equipment and supplies	**Part 459**
Plastics processing	**Part 463**
Plastic and synthetic material manufacturing	**Part 414**
Porcelain enameling	**Part 466**
Printing and publishing	N/A
Pulp and paper mills	**Part 430**
Rubber processing	**Part 428**
Soap and detergent manufacturing	**Part 417**
Steam electric power plants	**Part 423**
Textile mills	**Part 410**
Timber products processing	**Part 429**

CMP THRESHOLD REVIEW SHEET

INDUSTRIAL WASTEWATER DISCHARGE PERMITS

Monument Chemical Baytown, LLC

TPDES PERMIT NUMBER: WQ0001914000
CLASSIFIED SEGMENT:
NAME: Tabbs Bay
NUMBER: 2426
COUNTY: Harris

Is the facility located within the Coastal Zone?
Yes ☒ No ☐

If "Yes," complete Section A and, if directed to do so, Section B. If "No," this worksheet is not required.

SECTION A

Yes	No		
☐	☒	1.	This is a new permit application which would authorize the discharge of a wastewater subject to EPA Categorical Effluent Standards (40 CFR Parts 400-471) into a priority segment (see Appendix B).
☐	☒	2.	This is an amendment permit application which would authorize an increase in the mass loading of pollutants from the discharge of a wastewater subject to EPA Categorical Effluent Standards (40 CFR Parts 400-471) into a priority segment (see Appendix B).
☐	☒	3.	This is an amendment permit application which would change the point of discharge of a wastewater subject to EPA Categorical Effluent Standards (40 CFR Parts 400-471) into a priority segment (see Appendix B).

IF "YES" TO ANY OF THE ABOVE THEN THE PERMIT ACTION IS CONSIDERED ABOVE THRESHOLD, COMPLETE SECTION B.

IF "NO" TO ALL OF THE ABOVE, THEN THE PERMIT ACTION IS CONSIDERED BELOW THRESHOLD, STOP HERE.

SECTION B

☐ 1. The IOM from standards states that "no significant degradation of high quality receiving waters is anticipated" (if receiving water has a designated high quality aquatic life use).

☐ 2. The IOM from standards states that "no loss of designated uses is anticipated."

☐ 3. The draft permit complies with all applicable provisions of 30 TAC 307, 309, and 319.

Alexander Owens
PERMIT WRITER

06/24/2025
DATE

TIDAL SEGMENTS DESIGNATED AS TCEQ PRIORITY WATERBODIES
COASTAL MANAGEMENT PROGRAM

Segment Number	Name
2412	Sabine Lake
2411	Sabine Pass
2423	East Bay
2439	Lower Galveston Bay
0801	Trinity River Tidal
1113	Armand Bayou Tidal
2431	Moses Lake
2424	West Bay
2432	Chocolate Bay
2433	Bastrop Bay/Oyster Lake
2434	Christmas Bay
2435	Drum Bay
2442	Cedar Lakes
2441	East Matagorda Bay
2451	Matagorda Bay/Powderhorn Lake
2452	Tres Palacios Bay/Turtle Bay
2456	Carancahua Bay
2455	Keller Bay
2461	Espiritu Santo Bay
2462	San Antonio Bay/Hynes Bay/Guadalupe Bay
1801	Guadalupe River Tidal
2463	Mesquite Bay/Carlos Bay/Ayres Bay
2473	St. Charles Bay
2471	Aransas Bay
2472	Copano Bay/Port Bay/Mission Bay
2483	Redfish Bay
2482	Nueces Bay
2492	Baffin Bay/Alazan Bay/Cayo Del Grullo/Laguna Salada
2491	Laguna Madre
2493	South Bay

TPDES PERMIT MAJOR/MINOR RATING WORK SHEET

TPDES No.: WQ0001914000 **NPDES No.:** TX0059285

Facility Name: Monument Chemical Baytown, LLC

City/County: Baytown/ Harris

Receiving Water (Name/Segment No.):

Tabbs Bay 2426

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?

1. Power output 500 MW or greater (no cooling pond/lake).
2. A nuclear power plant.
3. Cooling water discharge greater than 25% of the receiving waters 7Q2 flow rate.

☐ **YES** (score is 600, stop here).
☒ **NO** (continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

☐ **YES** (score is 700, stop here).
☒ **NO** (continue)

FACTOR 1: Toxic Pollutant Potential

Primary SIC Code: 2869

Other SIC Codes: _____ _____ _____ _____

Industrial Subcategory Code _____

Determine the Toxicity potential from Appendix A of Major-Minor Rating Instructions. Be sure to use the TOTAL toxicity potential column and check one.

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
☒ No process wastestreams	0	0	☐ 3.	3	15	☐ 7.	7	35
☐ 1.	1	5	☐ 4.	4	20	☐ 8.	8	40
☐ 2.	2	10	☐ 5.	5	25	☐ 9.	9	45
			☐ 6.	6	30	☐ 10.	10	50

CODE NUMBER CHECKED 0
TOTAL POINTS FACTOR 1: 0

FACTOR 2: Flow/Stream Flow Volume (*Complete either Section A or B; check only one*)

SECTION A - Wastewater Flow Only Considered

		Code	Points
Type I:	Flow < 5 MGD	☐ 11	0
	Flow 5 to 10 MGD	☐ 12	10
	Flow 10 to 50 MGD	☐ 13	20
	Flow > 50	☐ 14	30
Type II:	Flow <1 MGD	☐ 21	10
	Flow 1 to 5 MGD	☐ 22	20
	Flow 5 to 10 MGD	☐ 23	30
	Flow > 10 MGD	☐ 24	50
Type III	Flow < 1 MGD	☒ 31	0
	Flow 1 to 5 MGD	☐ 32	10
	Flow 5 to 10 MGD	☐ 33	20
	Flow > 10 MGD	☐ 34	30

SECTION B - Wastewater & Stream Flow Considered

	Percent Effluent @ Mixing Zone	Code	Points
Type I/III:	< 10%	☐ 41	0
	10% to 50%	☐ 42	10
	> 50%	☐ 43	20
Type II:	< 10%	☐ 51	0
	10% to 50%	☐ 52	20
	> 50%	☐ 53	30

CODE NUMBER CHECKED 31
TOTAL POINTS FACTOR 2: 0

TPDES PERMIT MAJOR/MINOR RATING WORK SHEET

TPDES No.: WQ0001914000

FACTOR 3: Conventional Pollutants (*Only when limited by the permit)*

A. Oxygen Demanding Pollutant: (check one) ☒ BOD/CBOD ☐ COD ☐ Other:

Permit Limits: (check one)		Code	Points
☐	< 100 lbs/day	1	0
☒	100 to 1000 lbs/day	2	5
☐	1000 to 3000 lbs/day	3	15
☐	> 3000 lbs/day	4	20

B. Total Suspended Solids (TSS)

Permit Limits: (check one)		Code	Points
☒	< 100 lbs/day	1	0
☐	100 to 1000 lbs/day	2	5
☐	1000 to 5000 lbs/day	3	15
☐	> 5000 lbs/day	4	20

C. Nitrogen Pollutant: (check one) ☐ Ammonia ☐ Other:

Permit Limits: (check one)	Nitrogen Equivalent	Code	Points
☐	< 300 lbs/day	1	0
☐	300 to 1000 lbs/day	2	5
☐	1000 to 3000 lbs/day	3	15
☐	> 3000 lbs/day	4	20

CODE NUMBER CHECKED A 2 B 1 C -

POINTS FACTOR 3: A 5 + B 0 + C 0 = 5 **Total**

FACTOR 4: Public Health Impacts

Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving water is a tributary)? A public drinking water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

☐ YES (If yes, check toxicity potential number below)
☒ NO (If no, go to Factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory reference as in Factor 1. (Be sure to use the human health toxicity group column - check one below.)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
☐ No process wastestreams	0	0	☐ 3.	3	0	☐ 7.	7	15
☐ 1.	1	0	☐ 4.	4	0	☐ 8.	8	20
☐ 2.	2	0	☐ 5.	5	5	☐ 9.	9	25
			☐ 6.	6	10	☐ 10.	10	30

CODE NUMBER CHECKED -

TOTAL POINTS FACTOR 4: 0

TPDES PERMIT MAJOR/MINOR RATING WORK SHEET

TPDES No.: WQ0001914000

FACTOR 5: Water Quality Factors

A. *Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal effluent guidelines, or technology-based state effluent guidelines), or has a wasteload allocation been assigned to the discharge?*

	Code	Points
☐ YES	1	10
☒ NO	2	0

B. *Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?*

	Code	Points
☒ YES	1	0
☐ NO	2	5

C. *Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?*

	Code	Points
☐ YES	1	10
☒ NO	2	0

CODE NUMBER CHECKED A 2 B 1 C 2

POINT FACTOR 5: A 0 + B 0 + C 0 = 0 **Total**

FACTOR 6: Proximity to Near Coastal Waters

Base Score: Enter flow code here (from Factor 2): 31

Enter the multiplication factor that corresponds to the flow code: 0

Check appropriate facility HPRI Code (from PCS):

	HPRI#	CODE	HPRI Score
☐	1	1	20
☐	2	2	0
☒	3	3	30
☐	4	4	0
☐	5	5	0

HPRI code checked: | 3 |

Flow Code	Multiplication Factor
11, 31, or 41	0.00
12, 32, or 42	0.05
13, 33, or 43	0.10
14 or 34	0.15
21 or 51	0.10
22 or 52	0.30
23 or 53	0.60
24	1.00

Base Score: (HPRI Score) 30 X (Multiplication Factor) 0 = 0 (Total Points)

B. *Additional Points -- NEP Program*
For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions and National Estuary Program Map viewer)?

	Code	Points
☐ YES	1	10
☒ NO	2	0

C. *Additional Points -- Great Lakes Area of Concern*
For a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern?

	Code	Points
☐ YES	1	10
☐ NO	2	0

CODE NUMBER CHECKED A 3 B 2 C -

POINT FACTOR 6: A 0 + B 0 + C 0 = 0 **Total**

TPDES PERMIT RATING WORK SHEET

TPDES No.: WQ0001914000

SCORE SUMMARY

Factor	Description	Total Points
1	Toxic Pollutant Potential	0
2	Flow/Streamflow Volume	0
3	Conventional Pollutants	5
4	Public Health Impacts	0
5	Water Quality Factors	0
6	Proximity to Near Coastal Waters	0
	TOTAL (Factors 1 through 6)	5

S1. Is the total score equal to or greater than 80?

☐ YES - Facility is a major, stop here.
☒ NO - Facility is NOT a major, proceed to S2.

S2. Do you want the facility to be designated a discretionary major?

☐ YES - Add 500 points to the score above and provide justification below.
☒ NO - Stop here

Justification:

Check appropriate classification:

☐ Major

☒ Minor

☐ Discretionary Major

Alexander Owens
Permit Reviewer

512-239-6707
Phone Number

06/24/2025
Date Reviewed

NEW SOURCE DETERMINATION WORKSHEET

PERMITTEE:	Monument Chemical Baytown, LLC
TPDES PERMIT NUMBER:	WQ0001914000
NPDES PERMIT NUMBER:	TX0059285
TYPE OF INDUSTRIAL ACTIVITY:	An organic chemical manufacturing and processing plant
SIC CODE:	2869
CATEGORICAL GUIDELINES:	N/A

A. NEW SOURCE DETERMINATION - SCREENING

ANSWER EITHER "YES" OR "NO" TO THE FOLLOWING QUESTIONS AND PROCEED AS DIRECTED:

1. Is there an applicable new source performance standard for this facility?

   Yes ☐ No ☒ If YES, proceed to Item No. 2. If NO proceed to Section B, the facility is not a new source.

2. Was the current production facility in existence prior to the promulgation of the applicable new source performance standard?

   Yes ☐ No ☐ If NO, proceed to Item No. 3. If YES proceed to Section B, the facility is not a new source.

3. This facility MAY be classified as a new source. Additional information will be required to conduct an evaluation and make a final determination. Please refer to 40 CFR 122.29.

B. NEW SOURCE DETERMINATION - DETERMINATION

PLEASE CHECK THE APPROPRIATE DETERMINATION:

- ☒ Facility IS NOT a new source. Determination made via screening in Section A above.
- ☐ Facility IS NOT a new source. Determination made via evaluation. Please see evaluation in Appendix A of the Statement of Basis/Technical Summary.
- ☐ Facility IS a new source. Determination made via evaluation. Please see evaluation in Appendix A of the Statement of Basis/Technical Summary.

Alexander Owens
REVIEWER

06/24/2025
DATE

TOXIC RATING WORKSHEET

TPDES Permit No.:	WQ0001914000
NPDES Permit No.:	TX0059285
Permittee:	Monument Chemical Baytown, LLC
Facility:	Monument Chemical Baytown Facility
SIC Codes:	1. 2869 2. 3. 4.
40 CFR Section:	N/A
Toxic Rating for Facility:	2
Permit Writer:	Alexander Owens Date: 06/24/2025

CALCULATE TOXIC RATING FOR THE FACILITY

For each outfall listed below, list the percent contribution to the total wastewater flow from the facility and the toxic rating for the outfall.

OUTFALL No.	% Contribution	Toxic Rating	Rating × Percent
001	66	2	132
002	34	2	68
		Total =	200

Toxic Rating for Facility = Total/100 = 2 (round to nearest whole #)

OUTFALL NO.: 001

List waste streams in order of percent contribution to outfall and toxic rating for each waste stream:

Description of Waste Stream	%	Toxic Rating	Rating × Percent
Utility Blowdown	74	2	148
Washwater	19	2	38
Stormwater	6	2	12
Domestic Wastewater	< 1	3	6
	Total 100		Total: 204

Toxic Rating for Outfall = Total/100 = 2 (round to nearest whole #)

OUTFALL NO. 002

List waste streams in order of percent contribution to outfall and toxic rating for each waste stream:

Description of Waste Stream	%	Toxic Rating	Rating × Percent
Stormwater	100	2	200
	Total 100		Total: 200

Toxic Rating for Outfall = Total/100 = 2 (round to nearest whole #)

OUTFALL CONTAMINATION DETERMINATION

Permittee Name: Monument Chemical Baytown, LLC
Permittee Number: WQ0001914000

Use this worksheet to make a determination for each internal and external Outfall. Enter the determination (i.e., contaminated or uncontaminated) into the space provided for each outfall.

If any box is checked "YES", the outfall is classified as "CONTAMINATED" for billing and PARIS. If no boxes are checked "YES", the outfall is classified as "UNCONTAMINATED" for billing and PARIS.

Outfall No.: 001

Yes	No	
☐	☒	toxic rating is greater than or equal to three
☐	☒	discharge requires limits based on water quality factors of the receiving stream
☐	☒	discharge is greater than 10% (or more than 1 MGD) process wastewater
☐	☒	discharge requires monitoring and reporting or limits for radioactive materials
☐	☒	other: (provide explanation)

Outfall Determination: Uncontaminated

Outfall No.: 002

Yes	No	
☐	☒	toxic rating is greater than or equal to three
☒	☐	discharge requires limits based on water quality factors of the receiving stream
☐	☒	discharge is greater than 10% (or more than 1 MGD) process wastewater
☐	☒	discharge requires monitoring and reporting or limits for radioactive materials
☐	☒	other: (provide explanation)

Outfall Determination: Contaminated

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

To: Matthew Kennington, Team Leader
Industrial Permits Team, Wastewater Permitting Section

DATE: 06/24/2025

Thru: Peer Reviewer: Chris Linendoll, E.I.T.

From: Alexander Owens, Permit Writer
Industrial Permits Team, Wastewater Permitting Section

Subject:

Applicant:	Monument Chemical Baytown, LLC			
Facility Name:	Monument Chemical Baytown Facility			
☒ **TPDES**	☐ **TCEQ**	WQ0001914000	**EPA ID. No.**	TX0059285
Industrial:	☒ **Minor**	☐ **Major**		
Toxic Rating:	2	**Stream Segment:**	2426	
Received:	October 6, 2023	**Administratively Complete:**	December 5, 2023	
Assigned:	January 2, 2024	**To Team Leader:**	May 30, 2025	
Tech Complete:				

ATTACHMENTS:	**State-Only**	**TPDES**
New	☐	☐
Renewal	☐	☒
Major Amendment	☐	☐
Minor Amendment	☐	☐
Staff Initiated Amendment	☐	☐
Fact Sheet	☐	☐
SOB/Technical Summary	☐	☒

RATIONALE Used to Draft Permit:		
☐	**Federal Guidelines:**	
☐	**Waste Load Evaluation:**	
☒	**TCEQ Rules:**	30 TAC Chapters 305, 307, and 319
☒	**Existing Permit(s):**	WQ0001914000, issued April 3, 2019
☒	**Other:**	*Procedures to Implement the Texas Surface Water Quality Standards*, BPJ

Company's Rep: Mr. Philip Sprague, Environmental Supervisor

Phone #: 281-424-4505

Email: psprague@monumentchemical.com

Known Opposition: ☐ Yes ☒ No
If yes, briefly explain: _____

Comments:

☐ **Permit is reclassified per the major/minor determination worksheet. ARP Team to be notified during ED Sub.**

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Mr. Philip Sprague, Environmental Supervisor
Monument Chemical Baytown, LLC
5501 West Baker Road
Baytown, Texas 77520

Re: Monument Chemical Baytown, LLC
Draft TPDES Permit No. WQ0001914000, EPA ID No. TX0059285
(CN604039297), (RN100214832)

Dear Mr. Sprague:

A draft permit and technical summary for the above-referenced operation are enclosed for your review and comment. The drafts are subject to further staff review and modification; however, they generally include the terms and conditions that are appropriate for your discharge. **Please read the entire draft carefully, because there are changes from the existing permit.** Also enclosed for your review and comment is a copy of the draft second notice, the Notice of Application and Preliminary Decision. Please provide comments if there are inaccuracies or information that is not consistent with your application. After the draft permit is filed with the Office of the Chief Clerk, you will receive instructions for publishing this notice in a newspaper, unless notice is only required in the *Texas Register*.

Please submit your comments before the deadline provided in the e-mail. If your comments are not received by the deadline, the draft permit will be transferred to the Office of the Chief Clerk and comments received after the deadline will not be considered.

This application was declared administratively complete on December 5, 2023. Please note, a translated copy of the NAPD in the alternative language must be submitted with your comments on the draft permit. If a translated NAPD is not received, the draft permit cannot be filed with the Office of the Chief Clerk. For notice templates in Spanish, please visit: https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html.

If you have comments or questions, please contact me before the comment deadline at (512) 239-6707, by e-mail at alexander.owens@tceq.texas.gov, or, if by correspondence, include "MC 148" following my name in the letterhead address.

Sincerely,

Alexander Owens
Wastewater Permitting Section
Water Quality Division

AO

Enclosure

Alexander Owens

From:	Shemica Wilford
Sent:	Tuesday, June 24, 2025 4:45 PM
To:	pspragu e@monumentchemical.com; Dave, Narayan
Cc:	Alexander Owens
Subject:	WQ0001914000 Monument Chemical Baytown, LLC
Attachments:	WQ0001914000.pdf

To whom it may concern,

Attached for your review, is the letter, DRAFT permit, NAPD, and statement of basis/technical summary, for Permit WQ0001914000 Monument Chemical Baytown, LLC.

Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices

Please note, a translated copy of the NAPD in the alternative language must be submitted with your comments on the draft permit. If a translated NAPD is not received, the draft permit cannot be filed with the Office of the Chief Clerk. For notice templates in Spanish, please visit: https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html

Please submit any **comments and/or approval** no later than, *Tuesday, July 1, 2025.* If the comments and/ or approval are not received by the given deadline, it may cause significant delays in the permit process. Please contact Alexander Owens with your comments and/ or approval to:Alexander.Owens@tceq.texas.gov .

Thank you,

Shemica Wilford
Customer Information Assistance (CIA)
Water Quality Division
Texas Commission on Environmental Quality (TCEQ)
Shemica.Wiflord@tceq.texas.gov

Alexander Owens

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Tuesday, July 1, 2025 3:19 PM
To: Alexander Owens; Dave, Narayan; Shemica Wilford
Cc: Matthew Kennington; Michelle Labrie
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)
Attachments: WQ0001914000.pdf; Spanish.docx

Alex
The draft is approved attached is a copy of the draft along with the alternate language information.
Please let me know if there is anything needed for further processing.

Thanks
Philip Sprague
QA/QC – Environmental Supervisor
Monument Chemical Baytown
Direct 281-424-2001
Main 281-424-4505

Monument
Chemical

From: Alexander Owens <Alexander.Owens@tceq.texas.gov>
Sent: Tuesday, June 24, 2025 4:42 PM
To: Sprague, Philip <psprague@monumentchemical.com>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>
Subject: [EXT] RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Good afternoon Mr. Sprague,

I apologize for the delay. Attached to this email you will find a mailout copy of the draft permit, including the statement of basis and a draft version of the second notice. You will soon be receiving an email from Shemica Wilford that will include another copy of what is attached here along with a deadline for comments and approval. Permittee approval of the draft permit is required for continuing with the permitting process. In addition to approval, we will also need a Spanish copy of the Notice of Application and Preliminary Decision (second notice), which is included in the attached document. You can find a Spanish template for the second notice below.

https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html

Please let me know if you have any questions or concerns and have a great afternoon!

Best Wishes,
Alex Owens

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Friday, June 20, 2025 2:42 PM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

That is great news, thank you very much.

Regards
Philip

From: Alexander Owens <Alexander.Owens@tceq.texas.gov>
Sent: Friday, June 20, 2025 2:01 PM
To: Sprague, Philip <psprague@monumentchemical.com>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>
Subject: [EXT] RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Good afternoon Philip,

I apologize for the delayed response. This permit has been peer reviewed and is waiting for a few final edits before we mail it out for your review. My goal is to have the revised draft available for your review by CoB today, but if not then Monday at the latest. Thank you for reaching out!

Best Wishes,
Alex Owens

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Thursday, June 19, 2025 3:11 PM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Alexander,
Do you have an update on the water quality permit renewal.

Thanks
Philip Sprague
QA/QC – Environmental Supervisor
Monument Chemical Baytown
Direct 281-424-2001
Main 281-424-4505

Monument
Chemical

From: Sprague, Philip
Sent: Friday, October 18, 2024 3:41 PM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Attached is the updated information for permit renewal.
Updated table 1 for TDS
Updated table 2 for cyanide (free)
Updated table 3 in completion.

Please let me know if you need any other information.

Thanks
Philip Sprague
Monument Chemical Baytown
Direct 281-424-2001
Main 281-424-4505

Monument
Chemical

From: Sprague, Philip
Sent: Friday, September 13, 2024 8:24 PM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Analysis update.
Table 3 samples with TDS last set were picked up today.
Last Cn sample will be picked up Monday 16th.
Once the analysis is received should I email the tables in pdf with COC's or paper copy by mail.

Thanks
Philip

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Monday, August 12, 2024 5:58 PM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

No problem at all.
I will start this week for four weeks of testing.
Outfall 001

- TDS / composite sample
- Table 3 (complete list) / Grab sample
- Cyanide (free) / Grab sample

Please let me know if you have any questions.

Thanks
Philip

From: Alexander Owens <Alexander.Owens@tceq.texas.gov>
Sent: Monday, August 12, 2024 3:48 PM
To: Sprague, Philip <psprague@monumentchemical.com>; Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: [EXT] RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Good afternoon Mr. Sprague,

We would appreciate having four samples analyzed for the pollutants listed in table 3 to use in our water quality-based effluent limitations (WQBEL) screenings.

Additionally, and I apologize for not bringing this up in the initial email, during our WQBEL screening for the data provided in the application, it appears that limits will be required for free cyanide. Below you will find the screening values and average of the effluent data for cyanide.

Aquatic Life	*70% of Daily Avg.*	*85% of Daily Avg.*	*Average of samples*	*Sample 1*	*Sample 2*	*Sample 3*	*Sample 4*
Parameter	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(µg/L)*	*(µg/L)*
Cyanide (free)	4.42	5.37	18	10	28	17	17

The form of cyanide analyzed in the application was for available cyanide which is accepted by the TCEQ in place of free cyanide. However, free cyanide is a subpart of available cyanide, and would make up a smaller portion of the data submitted in the application.

It is up to you and your staff, but you have the option to re-test for free cyanide when the samples taken for table 3 are submitted to the lab, using the test methods established in 40 CFR Part 136. Please let me know if you would like to pursue this option. Thanks!

Best Wishes,
Alex Owens

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Monday, August 12, 2024 2:49 PM
To: Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Alexander Owens <Alexander.Owens@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Not a problem.

Sinse im conducting four weeks of TDS you still want two sets of table 3 or go ahead and conduct four weeks as shown on the sheet.

Thanks
Philip

From: Michelle Labrie <Michelle.Labrie@tceq.texas.gov>
Sent: Monday, August 12, 2024 1:44 PM
To: Sprague, Philip <psprague@monumentchemical.com>; Alexander Owens <Alexander.Owens@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: [EXT] RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Good afternoon Mr. Sprague,

Thank you for the update. Just to clarify one point, we will actually need 4 TDS samples spaced about a week apart.

When we conduct our TDS screening we take the average of the 4 values. The screening initially done for this permit application indicated that limits were needed. However, this is because that one value was substantially higher as you are aware. The retests will hopefully give us more representative values and we may be able to avoid additional control measures for TDS.

Please let me know if you have any questions.

Thank you,

Michelle S. Labrie
TCEQ Water Quality Division
Michelle.Labrie@tceq.texas.gov
Phone: 512.239.4535

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Monday, August 12, 2024 9:47 AM
To: Alexander Owens <Alexander.Owens@tceq.texas.gov>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: RE: Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Attached is the requested report with the high TDS. A sample will be submitted this week for retesting.

Please confirm the attached scan table / pollutants are the correct sheets needed for Outfall 001.
If this is correct two grabs will be conducted once a week for all analysis.

Thanks
Philip Sprague

Monument Chemical Baytown
Direct 281-424-2001
Main 281-424-4505

Monument Chemical

From: Alexander Owens <Alexander.Owens@tceq.texas.gov>
Sent: Friday, August 9, 2024 3:44 PM
To: Sprague, Philip <psprague@monumentchemical.com>; Dave, Narayan <ndave@monumentchemical.com>
Cc: Michelle Labrie <Michelle.Labrie@tceq.texas.gov>; Matthew Kennington <Matthew.Kennington@tceq.texas.gov>
Subject: [EXT] Notice of Deficiency for Monument Baytown Facility (Permit No. WQ0001914000)

Good afternoon Mr. Sprague and Mr. Dave,

My name is Alex Owens and I am the Industrial Wastewater Permit Writer assigned to the renewal of Permit No. WQ0001914000. During my review of the application I noticed some items that need to be addressed before I may continue with processing of the draft permit. Please address the following:

1. Table 3 in Worksheet 2.0 of the application is required to be completed in full for all external outfalls that discharge process wastewater. Outfall 001 discharges treated domestic wastewater which the TCEQ defines as a process wastewater. Please obtain and test at least two samples for all the parameters required by Table 3 of Worksheet 2.0 using an accredited laboratory so that we may screen the data against the calculated water quality-based effluent limitations.

2. In Table 1 of Worksheet 2.0, the level of total dissolved solids (TDS) for sample 1 represented a significant outlier from the other three results reported (23,100 mg/L vs. 814 mg/L, 1,470 mg/L, and 910 mg/L). To ensure that the tests conducted were accurate and the units were reported correctly, please submit the laboratory report for Sample 1. Additionally, please take an additional sample of the discharge and test for TDS so that the Standards Implementation Team of our agency can re-conduct the TDS/Chloride/and Sulfate screening for this permit action.

Please respond to this email by **August 23, 2024**, to ensure the continued processing of this renewal application. If you have any questions or concerns, please feel free to reach out. Thank you for your time.

Best Wishes,

Alexander Owens

Environmental Permit Specialist
Water Quality Division
Wastewater Permitting, Industrial Permits
Texas Commission of Environmental Quality
12100 Park 35 Circle, Building F, Room 2101
Phone: 512-239-6707

Table 1 for Outfall No.: 001

Samples are (check one): ☒ Composite ☐ Grab

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<2.0	<2.0	<2.0	<2.0
CBOD (5-day)	<2.0	<2.0	<2.0	<2.0
Chemical oxygen demand	35.0	36.0	40.0	50.0
Total organic carbon	9.3	11.3	10.5	10.0
Dissolved oxygen	6.71 Grab	6.1 Grab	7.4 Grab	6.2 Grab
Ammonia nitrogen	0.17	0.17	0.25	0.15
Total suspended solids	8.1	9.3	10.0	9.2
Nitrate nitrogen	0.21	0.28	1.2	1.67
Total organic nitrogen	0.80	0.66	0.53	0.51
Total phosphorus	0.57	0.57	0.50	0.61
Oil and grease	<2.78 Grab	<2.78 Grab	<2.88 Grab	<2.78 Grab
Total residual chlorine	0.87 Grab	0.90 Grab	0.75 Grab	0.65 Grab
Total dissolved solids	956	852	820	832
Sulfate	56.7	56.4	63.1	61.7
Chloride	273	289	269	320
Fluoride	0.4	0.25	0.44	0.49
Total alkalinity (mg/L as $CaCO_3$)	106	108	106	106
Temperature (°F)	82 Grab	89 Grab	87 Grab	89 Grab
pH (standard units)	7.81 Grab	8.50 Grab	8.44 Grab	8.10 Grab

Table 2 for Outfall No.: 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	68.0	60.0	11.0	60.0	2.5
Antimony, total	<0.5	0.8	1.0	0.8	5
Arsenic, total	4.6	6.0	6.0	5.0	0.5
Barium, total	69	90.0	115.0	74.0	3
Beryllium, total	<0.5	<0.5	<0.5	<0.5	0.5
Cadmium, total	<0.5	<0.5	<0.5	<0.5	1
Chromium, total	0.5	0.7	1.0	0.5	3
Chromium, hexavalent	<1.0	<1.0	<1.0	<1.0	3
Chromium, trivalent	<1.0	<1.0	<1.0	<1.0	N/A
Copper, total	5.0	8.0	10.0	9.8	2
Cyanide, available	7.38	4.15	<1.50	<1.50	2/10
Lead, total	2.0	1.0	1.0	0.7	0.5
Mercury, total	0.003	0.004	0.005	0.004	0.005/0.0005
Nickel, total	2.0	2.0	2.0	2.7	2
Selenium, total	<1.0	<1.0	<1.0	<1.0	5
Silver, total	<0.5	<0.5	<0.5	<0.5	0.5
Thallium, total	<0.5	<0.5	<0.5	<0.5	0.5
Zinc, total	26.0	27.0	28	18.0	5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: 001

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<50	<50	<50	<50	50
Anthracene	<10	<10	<10	<10	10
Benzene	<10	<10	<10	<10	10
Benzidine	<50	<50	<50	<50	50
Benzo(a)anthracene	<5	<5	<5	<5	5
Benzo(a)pyrene	<5	<5	<5	<5	5
Bis(2-chloroethyl)ether	<10	<10	<10	<10	10
Bis(2-ethylhexyl)phthalate	<10	<10	<10	<10	10
Bromodichloromethane [Dichlorobromomethane]	36	76	<10	<10	10
Bromoform	< 10	18	<10	<10	10
Carbon tetrachloride	<5	<5	<5	<2	2
Chlorobenzene	<10	<10	<10	<10	10
Chlorodibromomethane [Dibromochloromethane]	21	58	<10	<10	10
Chloroform	42	82	<10	<10	10
Chrysene	<5	<5	<5	<5	5
m-Cresol [3-Methylphenol]	<10	<10	<10	<10	10
o-Cresol [2-Methylphenol]	<5	<5	<5	<5	10
p-Cresol [4-Methylphenol]	<10	<10	<10	<10	10
1,2-Dibromoethane	<10	<10	<10	<10	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<10	<10	<10	<10	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<10	<10	<10	<10	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<10	<10	<10	<10	10
3,3'-Dichlorobenzidine	<5	<5	<5	<5	5
1,2-Dichloroethane	<10	<10	<10	<10	10
1,1-Dichloroethene [1,1-Dichloroethylene]	<10	<10	<10	<10	10
Dichloromethane [Methylene chloride]	<20	<10	<20	<20	20
1,2-Dichloropropane	<10	<10	<10	<10	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<10	<10	<10	<10	10
2,4-Dimethylphenol	<10	<10	<10	<10	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Di-n-Butyl phthalate	<10	<10	<10	<10	10
Ethylbenzene	<10	<10	<10	<10	10
Fluoride	<500	<500	<500	<500	500
Hexachlorobenzene	<5	<5	<5	<5	5
Hexachlorobutadiene	<10	<10	<10	<10	10
Hexachlorocyclopentadiene	<10	<10	<10	<10	10
Hexachloroethane	<20	<20	<20	<20	20
Methyl ethyl ketone	<50	<50	<50	<50	50
Nitrobenzene	<10	<10	<10	<10	10
N-Nitrosodiethylamine	<20	<20	<20	<20	20
N-Nitroso-di-n-butylamine	<20	<20	<20	<20	20
Nonylphenol	<333	<333	<333	<333	333
Pentachlorobenzene	<20	<20	<20	<20	20
Pentachlorophenol	<5	<5	<5	<5	5
Phenanthrene	<10	<10	<10	<10	10
Polychlorinated biphenyls (PCBs) (**)	<0.2	<0.2	<0.2	<0.2	0.2
Pyridine	<20	<20	<20	<20	20
1,2,4,5-Tetrachlorobenzene	<20	<20	<20	<20	20
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	10
Tetrachloroethene [Tetrachloroethylene]	<10	<10	<10	<10	10
Toluene	<10	<10	<10	<10	10
1,1,1-Trichloroethane	<10	<10	<10	<10	10
1,1,2-Trichloroethane	<10	<10	<10	<10	10
Trichloroethene [Trichloroethylene]	<10	<10	<10	<10	10
2,4,5-Trichlorophenol	<50	<50	<50	<50	50
TTHM (Total trihalomethanes)	110	235	<10	<10	10
Vinyl chloride	<10	<10	<10	<10	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 "<".

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Page ____ of ____

Job ID:24081817

Monument Chemical Bayt ANA

info@ablabs.com
www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 63500-50
Company:Monument Chemical Baytown	Company: Same	4. Turnaround Time (Business Days)
Address:5501 Baker Rd	Address:	☐ 1 Day * ☐ Other
Baytown, TX 77520		☐ 2 Days *
Contact: Philip Sprague	Contact:	☐ 3 Days *
Phone: 281-424-4505	Phone:	☐ 5 Days * * Surcharge
Email: psprague@monumentchemical.com		☑ 7 Days-Standard
Email CC:		

A&B JOB ID

5. Project #

6. Project Name / Location

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company — Sampler's Signature & Date
Philip Sprague Monument Chemical Baytown

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	TDS	ANIONS_IC	VOC	SVOC	PCB's	Nonylphenol	18. Comments
												Number of containers	PL C	PL C	VOA H	AG C	AG C	AG S	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
24HC 001	01A	8-15-16-24	0800-0800	X		X						1	X						
001 Grab	02A	8/16/24	900		X	X						1		X					See attached list
001 Grab	02BCD	8/16/24	900		X	X						VOA			X				See attached list
001 Grab	02E	8/16/24	900		X	X						2				X			See attached list
001 Grab	02F	8/16/24	900		X	X						1					X		See attached list
001 Grab	02G	8/16/24	900		X	X						1						X	See attached list

19. RELINQUISHED BY	DATE	TIME		DATE	TIME	KNOWN HAZARDS / COMMENTS:
1) Philip Sprague	8-16-24	1024	1	8/16/24	1024	
2)	8/16/24	1415		8/16/24	1415	
3)			21.RECEIVED BY LABORATORY			

* Containers: **VOA**- 40 ml vial; **4 oz/8 oz**- glass wide mouth; **A/G**- Amber/Glass 1 Liter; **P/O**- Plastic/other ____

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other ____

Temperature: 1.3 °C
Intact? ☒ Y ☐ N
Initials ____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

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Page _____ of _____

Job ID:24082646

Monument Chemical Bayt ANA

www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 63500-50
Company:Monument Chemical Baytown	Company: Same	4. Turnaround Time (Business Days)
Address:5501 Baker Rd	Address:	☐ 1 Day * ☐ Other
Baytown, TX 77520		☐ 2 Days *
Contact: Philip Sprague	Contact:	☐ 3 Days *
Phone: 281-424-4505	Phone:	☐ 5 Days * * Surcharge
Email: psprague@monumentchemical.com		☑ 7 Days-Standard
Email CC:		

A&B JOB ID

5. Project #

6. Project Name / Location

7. Reporting Requirement

☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**

Philip Sprague Monument Chemical Baytown

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	TDS	ANIONS_IC	VOC	SVOC	PCB's	Nonylphenol	18. Comments
												Number of containers	PL C	PL C	VOA H	AG C	AG C	AG S	14. Containers* / 15. Preservatives** / 16. pH-Lab Only
24HC 001	01A	8-22-23-24	0800-0800	X		X						1	X						
001 Grab	02A	8/23/24	900		X	X						1		X					See attached list
001 Grab	02BD	8/23/24	900		X	X						VOA			X				See attached list
001 Grab	02EF	8/23/24	900		X	X						2				X			See attached list
001 Grab	02G	8/23/24	900		X	X						1					X		See attached list
001 Grab	02H	8/23/24	900		X	X						1						X	See attached list

19. RELINQUISHED BY	DATE	TIME		DATE	TIME	KNOWN HAZARDS / COMMENTS:
1) Philip Sprague	8-23-24	1135	1)	8.23.24	1135	
2)	8-23-24	1444				
3)			21. RECEIVED BY LABORATORY	8/23/24	1444	

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **P/O**- Plastic/other _____

4 oz/8 oz- glass wide mouth

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other_____

Temperature: 2.3 c **Intact?** ☑ Y ☐ N Initials MM IR

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

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Job ID:24083387

Monument Chemical Bayt ANA

www.ablabs.com

1. REPORT TO:	2. INVOICE TO:	3. PO # 63500-50
Company:Monument Chemical Baytown	Company: Same	4. Turnaround Time (Business Days)
Address:5501 Baker Rd	Address:	☐ 1 Day * ☐ Other
Baytown, TX 77520		☐ 2 Days *
Contact: Philip Sprague	Contact:	☐ 3 Days *
Phone: 281-424-4505	Phone:	☐ 5 Days * * Surcharge
Email: psprague@monumentchemical.com		☑ 7 Days-Standard
Email CC:		

A&B JOB ID

5. Project #

6. Project Name / Location

7. Reporting Requirement

☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company **Sampler's Signature & Date**

Philip Sprague Monument Chemical Baytown

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	Soil	Sludge	Oil	Air	other	13. No. of Containers	TDS	ANIONS_IC	VOC	SVOC	PCB's	Nonylphenol	18. Comments
													PL C	PL C	VOA H	AG C	AG C	AG S	Number of containers / 14. Containers* / 15. Preservatives** / 16. pH-Lab Only
24HC 001	01A	8-29-30-24	0800-0800	X		X						1	X						
001 Grab	02A	8/30/24	0800		X	X						1		X					See attached list
001 Grab	02BCD	8/30/24	0800		X	X						VOA			X				See attached list
001 Grab	02EF	8/30/24	0800		X	X						2				X			See attached list
001 Grab	02G	8/30/24	0800		X	X						1					X		See attached list
001 Grab	02H	8/30/24	0800		X	X						1						X	See attached list

19. RELINQUISHED BY	DATE	TIME	1	DATE	TIME	KNOWN HAZARDS / COMMENTS:
1) Philip Sprague	8-30-24	1045		8/30/24	1045	
2)	8/30/24	1520		8/30/24	1520	
3)			21.RECEIVED BY LABORATORY			IR7 1.5°

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **P/O**- Plastic/other _____
4 oz/8 oz- glass wide mouth

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other____

Temperature: _____ **Intact?** ☑ Y ☐ N Initials _____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

10100 East Freeway (I-10)

Job ID:24091440

Monument Chemical Bayt ANA

Page ____ of

1. REPORT TO:	2. INVOICE TO:	3. PO # 63500-50
Company:Monument Chemical Baytown	Company: Same	4. Turnaround Time (Business Days)
Address:5501 Baker Rd	Address:	☐ 1 Day * ☐ Other
Baytown, TX 77520		☐ 2 Days *
Contact: Philip Sprague	Contact:	☐ 3 Days *
Phone: 281-424-4505	Phone:	☐ 5 Days * * Surcharge
Email: psprague@monumentchemical.com		☑ 7 Days-Standard
Email CC:		

A&B JOB ID

5. Project #

6. Project Name / Location

7. Reporting Requirement

☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☐ Standard Level II

8. Sampler's Name & Company — Sampler's Signature & Date

Philip Sprague Monument Chemical Baytown

9. Sample ID & Description	Lab Use Only	10. Sampling		11.		12. Matrix						13. No. of Containers	TDS	ANIONS_IC	VOC	SVOC	PCB's	Nonylphenol	Number of containers
		Date	Time	comp	grab	Water	Soil	Sludge	Oil	Air	other								
													PL C	PL C	VOA H	AG C	AG C	AG S	14. Containers*
																			15. Preservatives**
																			16. pH-Lab Only
24HC 001	014	9-12-13-24	0800-0800	X		X						1	X						18. Comments
001 Grab	02A	9/13/24	0800		X	X						1		X					See attached list
001 Grab	02BD	9/13/24	0800		X	X						VOA			X				See attached list
001 Grab	02EF	9/13/24	0800		X	X						2				X			See attached list
001 Grab	026	9/13/24	0800		X	X						1					X		See attached list
001 Grab	021	9/13/24	0800		X	X						1						X	See attached list

19. RELINQUISHED BY	DATE	TIME		DATE	TIME	KNOWN HAZARDS / COMMENTS:
1) Philip Sprague	9-13-24	1037	1	9/13/24	1037	
2)	9/13/24	1245				
3)			21.RECEIVED BY LABORATORY	9/13/24	1245	FR7 1.6°

* Containers: **VOA**- 40 ml vial; **4 oz/8 oz**- glass wide mouth; **A/G**- Amber/Glass 1 Liter; **P/O**- Plastic/other

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

Temperature: ____ **Intact?** ☑ Y ☐ N Initials

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 30 days. A&B reserves the right to return samples.

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 321712

HS2409U042

Monument Chemical- Houston
Monument Sample Analysis

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Monument Sample Analysis	A	SUB_Free Cyanide(Sub to Holland MI)
Work Order		Project Number	Permit Renewal	B	
Company Name	Monument Chemical- Houston	Bill To Company	Monument Chemical- Houston	C	
Send Report To	Philip Sprague	Invoice Attn	Accounts Payable	D	
Address	16717 Jacintoport Blvd	Address	16717 Jacintoport Blvd	E	
				F	
City/State/Zip	Houston, TX 77015	City/State/Zip	Houston TX 77015	G	
Phone	(832) 37-6.20	Phone	(832) 37-6.20	H	
Fax		Fax		I	
e-Mail Address	psprague@monumentchemical.com	e-Mail Address	mchacctpay@monumentchemical.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	001 Grab	8-30-24	1300	W	NAOH	1	X										
2	001 Grab	9-3-24	0915	W	NAOH	1	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Philip Sprague Philip Sprague

Shipment Method: ALS

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

		Date:	Time:	
Relinquished by:	Philip Sprague	9-3-24	1153	Received by:
Relinquished by:		9-3-24	1330	Received by (Laboratory):
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):

Notes: Monument Sample Analysis

Cooler ID	Cooler Temp.
52334	4.5

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level II Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP CheckList
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

June 34

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Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 321713

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Monument Sample Analysis	A	SUB_Free Cyanide(Sub to Holland MI)
Work Order		Project Number	Permit Renewal	B	
Company Name	Monument Chemical- Houston	Bill To Company	Monument Chemical- Houston	C	
Send Report To	Philip Sprague	Invoice Attn	Accounts Payable	D	
Address	16717 Jacintoport Blvd	Address	16717 Jacintoport Blvd	E	
City/State/Zip	Houston, TX 77015	City/State/Zip	Houston TX 77015	F	
Phone	(832) .37-6.20	Phone	(832) .37-6.20	G	
Fax		Fax		H	
e-Mail Address	psprague@monumentchemical.com	e-Mail Address	mchacctpay@monumentchemical.com	I	
				J	

HS24090728
Monument Chemical- Houston
Monument Sample Analysis Permit Renewal

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	001 Grab	9-13-24	1000	W	NaOH	1	X										
2	001 Grab	9-16-24	0930	W	NaOH	1	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Philip Sprague Philip Sprague

Shipment Method: ALS

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Philip Sprague	9-16-24	1000	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	9-16-24	1132	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Monument Sample Analysis BAytown

Cooler ID	Cooler Temp.
Grey	4.2

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level II Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

PRM34

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Compliance History Report

Compliance History Report for CN604039297, RN100214832, Rating Year 2023 which includes Compliance History (CH) components from September 1, 2018, through August 31, 2023.

Customer, Respondent, or Owner/Operator: CN604039297, Monument Chemical Baytown, LLC **Classification:** SATISFACTORY **Rating:** 0.17

Regulated Entity: RN100214832, ADVANCED AROMATICS **Classification:** SATISFACTORY **Rating:** 0.17

Complexity Points: 17 **Repeat Violator:** NO

CH Group: 05 - Chemical Manufacturing

Location: 5501 W BAKER RD BAYTOWN, TX 77520-1611, HARRIS COUNTY

TCEQ Region: REGION 12 - HOUSTON

ID Number(s):

AIR NEW SOURCE PERMITS PERMIT 2321
AIR NEW SOURCE PERMITS AFS NUM 4820100290
AIR NEW SOURCE PERMITS REGISTRATION 129288
AIR NEW SOURCE PERMITS REGISTRATION 143603
AIR NEW SOURCE PERMITS REGISTRATION 149005
AIR NEW SOURCE PERMITS REGISTRATION 155954
AIR NEW SOURCE PERMITS REGISTRATION 157098
WASTEWATER PERMIT WQ0001914000
AIR EMISSIONS INVENTORY ACCOUNT NUMBER HG0132V
INDUSTRIAL AND HAZARDOUS WASTE EPA ID TXD072205578
AIR NEW SOURCE PERMITS ACCOUNT NUMBER HG0132V
AIR NEW SOURCE PERMITS REGISTRATION 83746
AIR NEW SOURCE PERMITS REGISTRATION 150311
AIR NEW SOURCE PERMITS REGISTRATION 146022
AIR NEW SOURCE PERMITS REGISTRATION 146047
AIR NEW SOURCE PERMITS REGISTRATION 152629
AIR NEW SOURCE PERMITS REGISTRATION 152455
WASTEWATER EPA ID TX0059285
POLLUTION PREVENTION PLANNING ID NUMBER P00965
INDUSTRIAL AND HAZARDOUS WASTE SOLID WASTE REGISTRATION # (SWR) 31239

Compliance History Period: September 01, 2018 to August 31, 2023 **Rating Year:** 2023 **Rating Date:** 09/01/2023

Date Compliance History Report Prepared: March 26, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: September 01, 2018 to August 31, 2023

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: Alexander Owens **Phone:** (512) 239-6707

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 November 13, 2018 (1542193)

Item 2	December 13, 2018	(1545962)
Item 3	January 15, 2019	(1561910)
Item 4	February 01, 2019	(1572559)
Item 5	February 12, 2019	(1561908)
Item 6	March 13, 2019	(1561909)
Item 7	May 01, 2019	(1553557)
Item 8	May 14, 2019	(1584729)
Item 9	June 12, 2019	(1584730)
Item 10	July 11, 2019	(1593905)
Item 11	August 17, 2019	(1600230)
Item 12	September 17, 2019	(1607124)
Item 13	October 09, 2019	(1593024)
Item 14	October 17, 2019	(1613976)
Item 15	November 14, 2019	(1641393)
Item 16	December 12, 2019	(1627149)
Item 17	January 15, 2020	(1634785)
Item 18	March 12, 2020	(1647907)
Item 19	April 20, 2020	(1654261)
Item 20	May 20, 2020	(1660827)
Item 21	June 16, 2020	(1667358)
Item 22	June 23, 2020	(1651931)
Item 23	July 17, 2020	(1674309)
Item 24	August 19, 2020	(1681076)
Item 25	September 16, 2020	(1687652)
Item 26	October 19, 2020	(1693995)
Item 27	November 16, 2020	(1727715)
Item 28	December 17, 2020	(1714650)
Item 29	January 19, 2021	(1714651)
Item 30	April 15, 2021	(1727717)
Item 31	May 14, 2021	(1741155)
Item 32	June 15, 2021	(1741156)
Item 33	July 16, 2021	(1752432)
Item 34	August 16, 2021	(1757862)
Item 35	September 14, 2021	(1767085)
Item 36	October 20, 2021	(1777560)
Item 37	November 18, 2021	(1784359)
Item 38	December 20, 2021	(1791389)
Item 39	January 20, 2022	(1799171)
Item 40	March 11, 2022	(1814113)
Item 41	April 14, 2022	(1820687)
Item 42	May 12, 2022	(1829522)
Item 43	June 24, 2022	(1835816)
Item 44	July 20, 2022	(1843017)
Item 45	September 13, 2022	(1856946)
Item 46	October 07, 2022	(1863304)
Item 47	November 16, 2022	(1870216)
Item 48	January 12, 2023	(1882885)
Item 49	February 17, 2023	(1890697)
Item 50	March 13, 2023	(1899263)
Item 51	April 12, 2023	(1906068)
Item 52	May 13, 2023	(1913223)
Item 53	June 14, 2023	(1919833)
Item 54	July 14, 2023	(1926797)
Item 55	August 17, 2023	(1933756)

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.

Compliance History Report for CN604039297, RN100214832, Rating Year 2023 which includes Compliance History (CH) components from September 01, 2018, through August 31, 2023.

1 Date: 11/30/2022 (1876064)
Self Report? YES Classification: Moderate
Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)
30 TAC Chapter 305, SubChapter F 305.125(1)
Description: Failure to meet the limit for one or more permit parameter

F. Environmental audits:

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: Josi Robertson
Modeler, Water Quality Assessment Team
Water Quality Assessment Section

Date: December 15, 2023

Subject: Monument Chemical Baytown LLC
Permit Renewal (WQ0001914000, TX0059285)
Discharge to the watershed of Tabbs Bay (Segment No. 2426)

The referenced applicant is proposing to renew its permit authorizing the discharge of 0.06 MGD of treated domestic wastewater, utility wastewaters, and stormwater via Outfall 001 and intermittent & flow-variable stormwater via Outfall 002 into the watershed of Tabbs Bay (Segment No. 2426). A dissolved oxygen modeling analysis for Outfall 001 was conducted using an updated version of the calibrated QUAL-TX model documented in the *Waste Load Evaluation WLE-1R for the Houston Ship Channel System* (September 2006). The facility is located in Harris County.

Based on modeling results, the current effluent limits of **10 mg/L BOD_5** for the **0.06 MGD Outfall 001** discharge is predicted to be adequate to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the unnamed ditch (2.0 mg/L), Harris County Flood Control District ditch O107-00-00 (2.0 mg/L), West Fork Goose Creek (2.0 mg/L), and Goose Creek (3.0 mg/L).

Segment No. 2426 is currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list). The listing is for dioxin and PCBs in edible tissue throughout the entire segment (AU 2426_01). **Goose Creek Tidal (2426C)**, is also listed for dioxin and PCBs in edible tissue from the Tabbs Bay confluence upstream to the East Fork of Goose Creek confluence (AU 2426C_01).

TMDL Project No. 1 Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System **has been withdrawn and is no longer applicable.**

TCEQ Interoffice Memorandum

To: Industrial Permits Team
Wastewater Permitting Section

From: Brian Christman, Water Quality Assessment Team
Water Quality Assessment Section

Date: December 14, 2023

Subject: Monument Chemical Baytown, LLC
Wastewater Permit No. WQ0001914000
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **2** for an intermittent water body within three miles of a perennial freshwater ditch, stream, or river.

This discharge is to an unnamed ditch within three miles of Goose Creek.

Segment No. (freshwater)	0902
Effluent Flow for Aquatic Life (MGD)	0.029 (2-yr max)
Critical Low Flow [7Q2] (cfs) for intermittent	0
Critical Low Flow [7Q2] (cfs) for perennial	0.61
% Effluent for Acute Aquatic Life (ZID)	100
Effluent Flow for Human Health (MGD)	0.020 (2-yr avg)
Harmonic Mean Flow (cfs)	1.46

Human Health criteria apply for Incidental Fish Only.

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. 0902 values for pH, TSS, hardness, and chloride** for the evaluation of the immediate receiving waters.

Also check TexTox menu number 6.

This discharge is to Goose Creek (tidal).

Segment No.	2426
Effluent Flow for Human Health (MGD)	0.020 (2-yr avg)
Harmonic Mean Flow (cfs)	18.81
% Effluent for Human Health	4

Human Health criteria apply for Fish Only.

The following information applies to **Outfall 002**.

This current permit authorizes the discharge of stormwater on an intermittent and flow-variable basis. Typically, critical conditions are not developed for stormwater outfalls. If the permit writer determines that water quality-based limits are necessary, critical conditions can be calculated upon request.

OUTFALL LOCATIONS [1]

Outfall Number	Latitude	Longitude
001	29.763542 N	95.019975 W
002	29.763551 N	95.019960 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michelle Labrie, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: December 12, 2023

Subject: Monument Chemical Baytown, LLC
Permit no. WQ0001914000
Renewal; Application received: 12/5/2023

The discharge route for the above referenced permit is to an unnamed ditch, thence to Harris County Flood Control District (HCFCD) ditch O107-00-00, thence to West Fork Goose Creek, thence to Goose Creek, thence to Goose Creek (tidal), thence to Tabbs Bay in Segment 2426 of the Bays and Estuaries Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code (TAC) §307.10) for Segment 2426 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 *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). 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.

HCFCD ditch O107-00-00 **and** West Fork Goose Creek; minimal aquatic life use; 2.0 mg/L dissolved oxygen.

Goose Creek; limited aquatic life use; 3.0 mg/L dissolved oxygen.

Goose Creek (tidal); high aquatic life use; 4.0 mg/L dissolved oxygen.

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.

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 5, 2023

Mr. Narayan Dave
Regulatory Manager
Monument Chemical Baytown, LLC
5501 West Braker Road
Baytown, Texas 77520

RE: Declaration of Administrative Completeness
Applicant Name: Monument Chemical Baytown, LLC (CN604039297)
Permit No.: WQ0001914000 (EPA I.D. No. TX0059285)
Site Name: Monument Chemical Baytown Facility (RN100214832)
Type of Application: Renewal

Dear Mr. Dave:

The executive director has declared the above referenced application, received on October 6, 2023, administratively complete on December 5, 2023.

You are now required to publish notice of your proposed activity and make a copy of the application available for public review. The following items are included to help you meet the regulatory requirements associated with this notice:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Public Notice Verification Form
- Publisher's Affidavits

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

1. Publish the enclosed notice within **30 calendar days** after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**

2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.

3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.

4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with all the requirements described in the instructions, further processing of your application may be suspended, or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Mrs. Rachel Ellis at (512) 239-4658.

Sincerely,

J Bowers

Jennifer E. Bowers
Section Manager, Water Quality Division Support, MC 148
Office of Water Quality
Texas Commission on Environmental Quality
PO BOX 13087
Austin, TX 78711

JEB/rle

Enclosures

Texas Commission on Environmental Quality
Instructions for Public Notice for a Water Quality Permit
Notice of Receipt of Application and Intent to Obtain Permit (NORI)

Your application has been declared administratively complete. You must comply with the following instructions. There are seven (7) steps involved in publishing notice. Complete each step.

1. **REVIEW THE NOTICE FOR ACCURACY**

   Read the enclosed notice carefully and notify the Application Review and Processing Team at 512-239-4671 immediately if it contains any errors or omissions. You are responsible for ensuring the accuracy of all information published. Do not change the text or formatting of the notice or affidavit of publication without prior approval from the TCEQ. Changing the text or formatting of the notice may require new publication at your expense and delay processing of your application.

2. **PUBLISH THE NOTICE IN THE NEWSPAPER**

   You must publish the enclosed notice within 30 days after the date of administrative completeness. Refer to the cover letter for the date of administrative completeness.

   You must publish the enclosed notice at your expense, at least once in the newspaper of largest circulation within each county where the facility and discharge point are located or will be located. If the facility and discharge point are located or will be located in a municipality, the enclosed notice must be published at least once in a newspaper of general circulation in the municipality. These requirements may be satisfied by one publication if the newspaper meets all of the above requirements.

   The bold text of the enclosed notice must be printed in the newspaper in a font style or size that distinguishes it from the rest of the notice (i.e., bold, italics). Failure to do so may require re-notice.

3. **PUBLISH THE NOTICE IN AN ALTERNATIVE LANGUAGE**

   You must publish notice in an alternative language IF: either the elementary or middle school nearest to the facility or proposed facility is required to provide a "bilingual education program" (BEP) as required by Texas Education Code (TEC), Chapter 29, Subchapter B, and 19 Tex. Admin. Code §89.1205(a) AND one of the following conditions is met:

   - students are enrolled in a program at that school;
   - students from that school attend a bilingual education program at another location; or
   - the school that otherwise would be required to provide a bilingual education program has been granted an exception from the requirements to provide the program as provided for in 19 Tex. Admin. Code §89.1207(a).

   A "bilingual education program" is different from an "English as a second language program" (ESL). An ESL program alone, will not require public notice in an alternative language.

If triggered, you must publish the notice in a newspaper or publication primarily published in the alternative language taught in the bilingual education program. Publication in an alternative language section or insert within a large publication which is not printed primarily in that alternative language does not satisfy these requirements. The newspaper or publication must be of general circulation in the county in which the facility and discharge point are located or proposed to be located. If the facility and discharge point are located or proposed to be located in a municipality, and there exists a newspaper or publication of general circulation in the municipality, you must publish the notice only in the newspaper or publication in the municipality.

You must demonstrate a good faith effort to identify a newspaper or publication in the required language. If there is no general circulation newspaper or publication printed in such language, then publishing in that language is not required. You have the burden to demonstrate compliance with these requirements.

If you are required to publish notice in Spanish, you must translate the site-specific information in the notice that is specific to your application, at your own expense. You may then insert the Spanish translation of your site-specific information into a Spanish template developed by the TCEQ. The Spanish templates are available on the TCEQ website at http://www.tceq.texas.gov/permitting/wastewater/review/wqspanish_nori.html. If you are required to publish notice in a language other than Spanish, you must translate the entire public notice, at your own expense.

4. **PUT THE APPLICATION IN A PUBLIC PLACE**

You must put a copy of the administratively complete application in the public place identified in the enclosed notice.

This copy must be accessible to the public for review and copying beginning on the first day of newspaper publication and remain in place for the publication's designated comment period.

During the technical review, you must update the publicly available application so that it includes all application revisions within 10 business days from the date the revision is transmitted to the TCEQ.

For confidential information contained in the application, you must indicate which specific portions of the application cannot be made available to the public. These portions of the application must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087."

5. **PROVIDE PROOF OF PUBLICATION**

For each newspaper in which you published, you must submit proof of publication. Proof of publication must include the following:

- a completed Publisher's Affidavit (enclosed); and
- a copy of the published notice which shows the notice, the date published, and the newspaper name. The copy must be on standard-size 8½ x 11" paper and must show the actual size of the published notice. Do not reduce the

image when making copies. Published notices longer than 11" must be copied onto multiple 8½ x 11" pages. Or you can submit the original newspaper clipping.

If you are required to publish notice in an alternative language and are unable to do so, complete and submit the Alternative Language Exemption form (enclosed).

6. **PROVIDE PROOF OF APPLICATION VIEWING LOCATION**

   You must submit a completed Public Notice Verification Form (enclosed) which certifies that the administratively complete application was placed at the public place identified in the enclosed notice.

7. **SUBMIT PROOFS TO TCEQ**

   The proof of publication documents (Step 5) and the completed Public Notice Verification Form (Step 6) must be submitted to TCEQ within 30 days of publication.

   By email to: PROOFS@tceq.texas.gov

   OR by mail at:
   TCEQ
   Office of the Chief Clerk, MC 105
   Attn: Notice Team
   P.O. Box 13087
   Austin, Texas 78711-3087

   NOTE: If proofs are submitted by email, you do not have to mail in the original documents.

Additional Information

If you fail to publish the notice or submit proofs within the timeframes noted above, the TCEQ may suspend further processing on your application or take other actions in accordance with 30 Tex. Admin. Code §39.405(a).

If you have any questions regarding publication requirements, please contact the Office of Legal Services at 512-239-0600. If you have any questions regarding the content of the notice, please contact the Wastewater Permitting Section at 512-239-4671. When contacting TCEQ regarding this application, please refer to the permit number at the top of the enclosed notice.

If you wish to obtain an electronic copy of the notice, please visit our web site at http://www.tceq.texas.gov/agency/cc/cc_db.html or http://www.tceq.texas.gov/agency/cc/eda.html. Please be aware that formatting codes may be lost and that any notices downloaded from these web sites must be reformatted by you so that your downloaded copy looks like the notice document you received from us.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0001914000

APPLICATION. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, which owns an organic chemical manufacturing and processing plant, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001914000 (EPA I.D. No. TX0059285) to authorize the discharge of treated wastewater and stormwater at a volume not to exceed a daily average flow of 60,000 gallons per day via Outfall 001; and the discharge of stormwater at an intermittent and flow-variable rate via Outfall 002. The facility is located at 5501 West Baker Road, Baytown, in Harris County, Texas 77520. The discharge route is from the plant site to Harris County Flood Control District Ditch; thence to West Fork Goose Creek; thence to Goose Creek; thence to Goose Creek Tidal, thence to Tabbs Bay. TCEQ received this application on October 6, 2023. The permit application will be available for viewing and copying at Sterling Municipal Library, 1 Mary Wilbanks Avenue, Baytown, Texas prior to the date this notice is published in the newspaper. 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=-95.02,29.763611&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

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. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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. 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 Monument Chemical Baytown, LLC at the address stated above or by calling Mr. Philip Sprague, Environmental Supervisor, at 281-424-4505.

Issuance Date: December 5, 2023

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Public Notice Verification Form
Notice of Receipt of Application and Intent to Obtain Permit (NORI)
Water Quality Permit

All applicants must complete this page.

Applicant Name:

Site or Facility Name:

Water Quality Permit Number:

Regulated Entity Number: RN Customer Number: CN

PUBLIC VIEWING LOCATION

I certify that a copy of the complete water quality application, and all revisions, were placed at the following public place for public viewing and copying. I understand that the copy will remain available at the public place from the 1st day of publication of the NORI until the end of the designated comment period. I further understand that the copy will be updated with any revisions to the application.

Name of Public Place:

Address of Public Place:

Applicant or Applicant Representative Signature: _____

Title: _____ Date: _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Public Notice Verification Form
Notice of Receipt of Application and Intent to Obtain Permit (NORI)
Water Quality Permit

Complete this page only if you are required to publish in an alternative language and are not able to do so.

Applicant Name:

Site or Facility Name:

Water Quality Permit Number:

Regulated Entity Number: RN Customer Number: CN

ALTERNATIVE LANGUAGE EXEMPTION

I certify that I have conducted a diligent search for a newspaper or publication of general circulation in both the municipality and county in which the facility is located or proposed to be located and was unable to publish the notice in the required alternative language because:

☐ A newspaper or publication could not be found in any of the alternative languages in which notice is required.

☐ The publishers of the newspapers listed below refused to publish the notice as requested, and another newspaper or publication in the same language and of general circulation could not be found in the municipality or county in which the facility is located or proposed to be located.

Newspaper Name:

Language:

Applicant or Applicant Representative Signature: _____

Title: _____ Date: _____

TCEQ-OFFICE OF THE CHIEF CLERK
MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Monument Chemical Baytown, LLC
Permit No.: WQ0001914000

PUBLISHER'S AFFIDAVIT
FOR WATER QUALITY PERMITS

STATE OF TEXAS §
COUNTY OF _____§

Before me, the undersigned authority, on this day personally appeared

_____ who being by me duly sworn, deposes
(name of person representing newspaper)

and says that **(s)**he is the_____
(title of person representing newspaper)

of the _____; that this newspaper is a newspaper of
(name of newspaper)

largest circulation in _____ County, Texas or is
(name of county)

a newspaper of general circulation in _____,
(name of municipality)

Texas; and that the enclosed notice was published in said newspaper on the following date**(s)**:

_____

_____
(newspaper representative's signature)

Subscribed and sworn to before me this the _____ day of _____,

20____.

(Seal)

_____
Notary Public in and for the State of Texas

_____
Print or Type Name of Notary Public

My Commission Expires _____

TCEQ-OFFICE OF THE CHIEF CLERK
MC-105 Attn: Notice Team
P.O. BOX 13087
AUSTIN, TX 78711-3087

Applicant Name: Monument Chemical Baytown, LLC
Permit No.: WQ0001914000

ALTERNATIVE LANGUAGE
PUBLISHER'S AFFIDAVIT

STATE OF TEXAS §
COUNTY OF _____ §

Before me, the undersigned notary public, on this day personally appeared

_____, who being by me duly sworn, deposes
(name of person representing newspaper)

and says that (s)he is the _____ of the
(title of person representing newspaper)

_____; that said newspaper is
(name of newspaper)

generally circulated in _____ County, Texas and
(same county as proposed facility)

is published primarily in _____ language; that the
(alternative language)

enclosed notice was published in said newspaper on the following date(s):

_____.

Subscribed and sworn to before me this the _____ day of _____,

20____, by _____
(newspaper representative's signature)

(Seal)

_____
Notary Public in and for the State of Texas

_____
Print or Type Name of Notary Public

My Commission Expires _____

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
RENOVACION

PERMISO NO. WQ0001914000

SOLICITUD. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0001914000 (EPA I.D. No. TX 0059285) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 60,000 galones por día a través del Emisario 001, y la descarga de aguas pluviales a un ritmo intermitente y de caudal variable a través del Emisario 002. La planta está ubicada 5501 West Baker Road, Baytown, en el Condado de Harris, Texas 77520. La ruta de descarga es del sitio de la planta a es desde el sitio de la planta hasta la zanja del Distrito de Control de Inundaciones del Condado de Harris; de allí a West Fork Goose Creek; de allí a Goose Creek; de allí a Goose Creek Tidal y de allí a Tabbs Bay.La TCEQ recibió esta solicitud el 6 de Octubre de 2023. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Municipal Sterling, 1 Mary Wilbanks Avenue, Baytown, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.02,29.763611&level=18

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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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 Monument Chemical Baytown, LLC en la dirección indicada anteriormente o llamando al Sr. Philip Sprague, Supervisor Ambiental, al 281-424-4505

Fecha de emission 5 de diciembre de 2023

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: HARRIS Segment Number: ____

Admin Complete Date: 12.5.23

Agency Receiving SPIF:

X Texas Historical Commission ____ U.S. Fish and Wildlife

Y 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: Monument Chemical Baytown
2. Permit No.: WQ00001914 EPA ID No.: TX0TXD072205578
3. Address of the project (location description that includes street/highway, city/vicinity, and county): 5501 W. Baker Rd. Baytown TX 77520 Harris County
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): Philip Sprague

   Organization Name: Monument Chemical Baytown Mailing Address: 5501 W. Baker Rd

   City: Baytown State: Texas Zip Code: 77520

   Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.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: NA

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: Discharge to Harris County Flood Control District (HCFCD) Ditch # 0107-00-00; thence to Goose Creek; thence to Goose Creek Tidal; thence to Tabbs Bay in segment No. 2426

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: XXXX

9. Provide original photographs of any structures 50 years or older on the property. Attachment: Click to enter text.

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

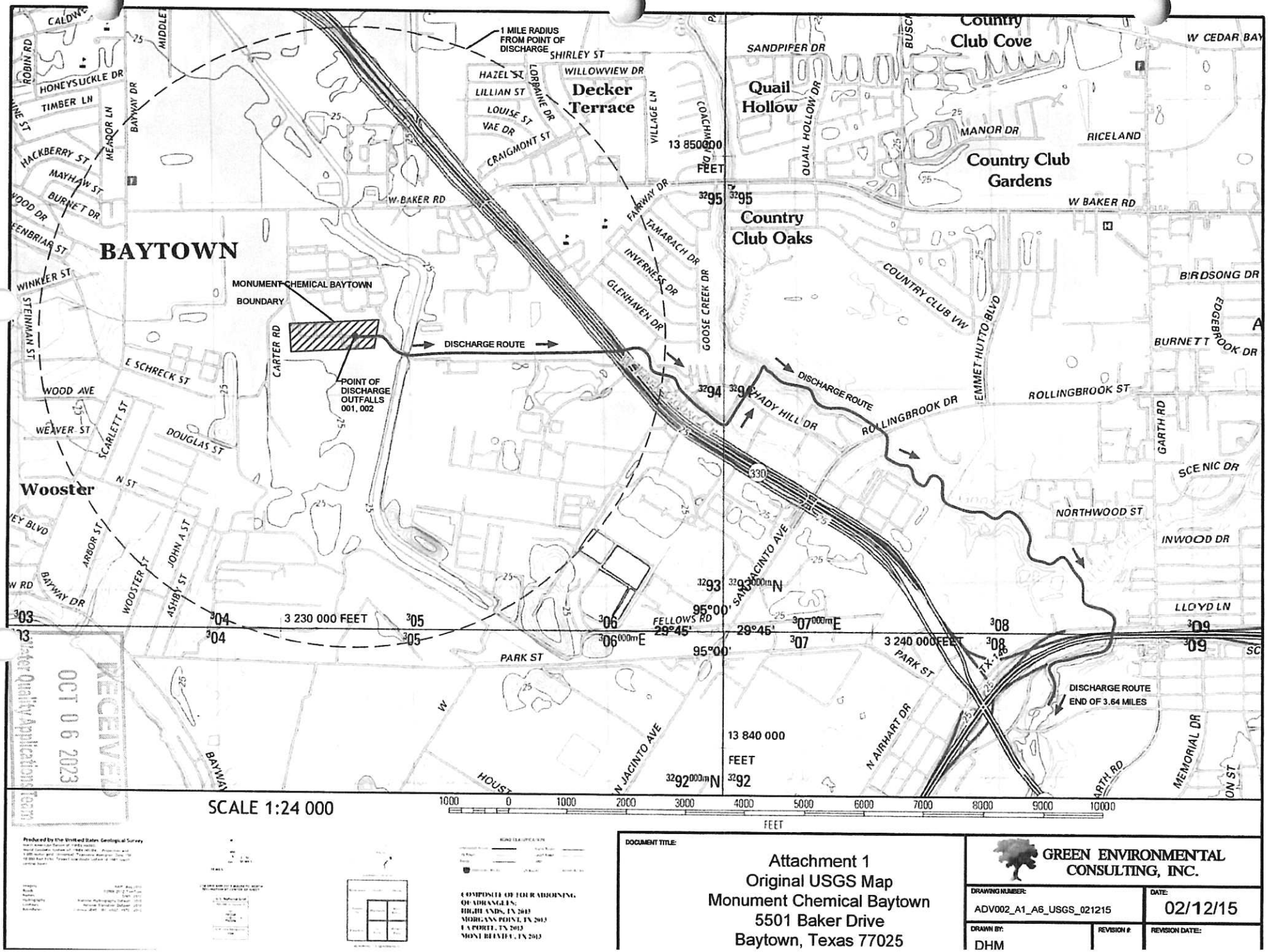
11. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features): Permit Renewal – No Impact

12. Describe existing disturbances, vegetation, and land use: NA

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: NA

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



RECEIVED
OCT 06 2023
Water Quality Application Team

COMPOSITE OF FOUR ABOINING QUADRANGLES:
HIGHLANDS, TX 2013
MORGANS POINT, TX 2013
LA PORTE, TX 2013
MONT BELVIEU, TX 2013

DOCUMENT TITLE:

Attachment 1
Original USGS Map
Monument Chemical Baytown
5501 Baker Drive
Baytown, Texas 77025

GREEN ENVIRONMENTAL CONSULTING, INC.

DRAWING NUMBER:		DATE:
ADV002_A1_A6_USGS_021215		02/12/15
DRAWN BY: DHM	REVISION #:	REVISION DATE:

Rachel Ellis

From: Sprague, Philip <psprague@monumentchemical.com>
Sent: Tuesday, October 24, 2023 2:05 PM
To: Rachel Ellis
Subject: RE: Application for Renewal Permit No. WQ0001914000-Monument Chemical Baytown, LLC
Attachments: MCB-WW Permit Renewal Fee payment voucher2 TCEQ ePay (002).pdf; MCB-WW Permit Renewal Fee payment voucher TCEQ ePay.pdf

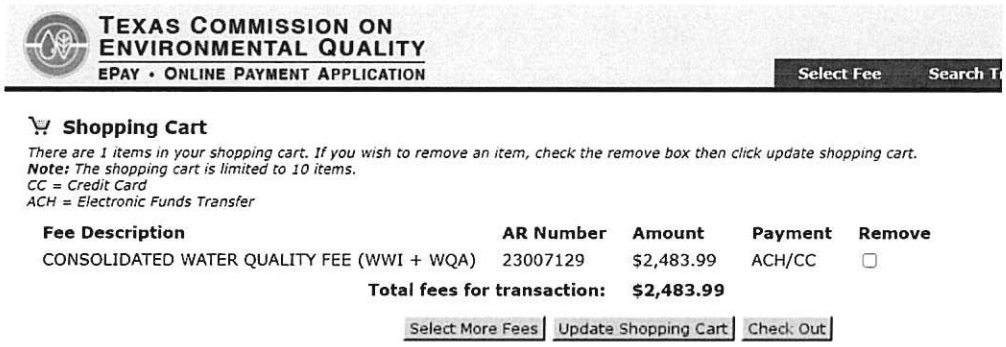
Rachel,
Item 1 from the NOD letter shows the following.

1. Section 1, Application Fee on page 2 of the administrative report: We have found that the following additional outstanding fees and must be paid before we can process your application and issue the permit.

Fees

Account Number(s)	Fee Type(s)	Amount Owed
AC#23007129	LATE FEE 10 JAN 23	$118.28
CWQ SC00318657		
	TOTAL	$118.28

Looking online for that account number it shows a different amount.
Is the $118.28 part of this or is this something else?



Thanks
Philip

From: Rachel Ellis <Rachel.Ellis@tceq.texas.gov>
Sent: Thursday, October 19, 2023 9:50 AM
To: Dave, Narayan <ndave@monumentchemical.com>
Cc: Sprague, Philip <psprague@monumentchemical.com>
Subject: [EXT] Application for Renewal Permit No. WQ0001914000-Monument Chemical Baytown, LLC

Dear Mr. Dave,

The attached Notice of Deficiency (NOD) letter dated October 19, 2023, requests additional information needed to declare the application administratively complete. Please email or mail an original and two copies (with two copies of the cover letter) of the complete response to my attention by November 2, 2023. Please read below.

Rachel L Ellis
Texas Commission on Environmental Quality
Water Quality Division
Application Review & Processing Team
Rachel.Ellis@tceq.texas.gov

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	663167
Trace Number:	582EA000570271
Date:	10/03/2023 10:57 AM
Payment Method:	CC - Authorization 0000079410
Voucher Amount:	$1,200.00
Fee Type:	WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - RENEWAL
ePay Actor:	NARAYAN DAVE
Actor Email:	narayan@ramkrupa.com
IP:	216.250.226.5

Payment Contact Information

Name:	NARAYAN DAVE
Company:	MONUMENT CHEMICAL BAYTOWN LLC
Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Phone:	832-376-2046

Site Information

RN:	RN100214832
Site Name:	MONUMENT CHEMICAL BAYTOWN
Site Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Site Location:	5501 WEST BAKER ROAD BAYTOWN TX 77520

Customer Information

CN:	CN604039297
Customer Name:	MONUMENT CHEMICAL BAYTOWN LLC
Customer Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520

Other Information

Program Area ID:	0001914000

Close

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Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	663168
Trace Number:	582EA000570271
Date:	10/03/2023 10:57 AM
Payment Method:	CC - Authorization 0000079410
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	NARAYAN DAVE
Actor Email:	narayan@ramkrupa.com
IP:	216.250.226.5

Payment Contact Information

Name:	NARAYAN DAVE
Company:	MONUMENT CHEMICAL BAYTOWN LLC
Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Phone:	832-376-2046

Close

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Monument Chemical

Monument Chemical Baytown, LLC
5501 West Baker Road.
Baytown, Texas 77520, US

October 24, 2023

VIA EMAIL & USPS

Rachel Ellis,
Applications Review and Processing Team (MCI148)
Water Quality Division
Texas Commission of Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

In response to your email on October 19, 2023, attached is an original and two copies.

1. Copy of check # 1630 includes the late fee from January 10, 2023, paid on 10-23-23.
2. The CDF Section III, Item 22: Monument Chemical Baytown LLC is the correct name on the original submittal.
3. Administrative Report 1.0 Item (D,E, and F) are completed and attached. (Original and 2 Copies)
4. The application section contains no errors or omissions.
5. NORI Spanish version complete and attached (original in Microsoft Word document Copy in pdf)
6. PLS Spanish version complete and attached (original in Microsoft Word document Copy in pdf)
7. PLS English version completed and attached (original in Microsoft Word document Copy in pdf)

Please let me know if you have any questions.

Regards,

Philip Sprague
Environmental Supervisor
Monument Chemical Baytown.

C: File, Narayan Dave

UNITED STATES POSTAL SERVICE.

BAYTOWN
601 W BAKER RD
BAYTOWN, TX 77521-2305
(800)275-8777

10/31/2023 01:14 PM

Product	Qty	Unit Price	Price
Priority Mail® Flat Rate Env	1		$9.65
Austin, TX 78711			
Flat Rate			
Expected Delivery Date Thu 11/02/2023			
Tracking #: 9505 5137 1439 3304 9515 50			
Insurance Up to $100.00 included			$0.00
Total			$9.65
Grand Total:			$9.65
Debit Card Remit			$9.65

Card Name: VISA
Account #: XXXXXXXXXXXX9580
Approval #: 111748
Transaction #: 152
Receipt #: 069398
Debit Card Purchase: $9.65
AID: A0000000980840 Chip
AL: US DEBIT
PIN: Verified

In a hurry? Self-service kiosks offer quick and easy check-out. Any Retail

Item 10. Regulated Entity and Permitted Site Information (Instructions Pages 28-30)

a. TCEQ issued Regulated Entity Number (RN), if available: RN100214832

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): Monument Chemical Baytown LLC

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: Monument Chemical Baytown LLC

Mailing Address: 5501 West Baker Road

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.com

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

f. Owner of land where treatment facility is or will be: Monument Chemical Baytown LLC

☐ Mr. ☐ Ms. Full Name (First and Last): Click to enter text.

or Organization Name: Monument Chemical Baytown LLC

Mailing Address: 5501 West Baker Road

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.com

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

g. Owner of effluent TLAP disposal site (if applicable): NA

☐ 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): Click to enter text.

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 blanks 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.

Monument Chemical Baytown LLC (CN604039297) operates Monument Chemical Baytown LLC RN100214832. an Organic Chemical manufacturing plant. The facility is located 5501 West Baker Road, in Baytown, Harris County, Texas 77520.

To renew the Texas Pollutant Discharge Elimination System (TPDES) permit No. WQ0001914000 (EPA I.D. No. TXD0059285) to authorize the discharge of treated wastewaters via Outfall 001 at a volume not to exceed a daily average flow of 60,000 gallons. And discharge stormwater via Outfall 002 at an intermittent flow of variable volume. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain stormwater and No process waste waters. Only treated wastewater which is treated by *a biological treatment system.*

INSTRUCTIONS

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

Example

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

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

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

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

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam. Low volume wastewater from blowdown of boiler Units 1 and 2 and metal cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal cleaning waste from equipment cleaning is generally disposed of off-site.

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
RENOVACION

PERMISO NO. WQ000

SOLICITUD. __Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520,__ ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0001914000____ (EPA I.D. No. TX _0059285_) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de __60.000 galones por día a través del Emisario 001, y la descarga de aguas pluviales a un ritmo intermitente y de caudal variable a través del Emisario 002.___ La planta está ubicada _5501 West Baker Road, Baytown, en el Condado de Harris, Texas._ La ruta de descarga es del sitio de la planta a _es desde el sitio de la planta hasta la zanja #O107-00-00 del Distrito de Control de Inundaciones del Condado de Harris (HCFCD); de allí a West Fork Goose Creek; de allí a Goose Creek; de allí a Goose Creek Tidal y de allí a Tabbs Bay.___ La TCEQ recibió esta solicitud el _6 de Octubre de 2023.___ La solicitud para el permiso estará disponible para leerla y copiarla en __Biblioteca Municipal Sterling, 1 Mary Wilbanks Avenue, Baytown, Texas_ antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.02,29.763611&level=18

También se puede obtener más información de Monument Chemical Baytown, LLC en la dirección indicada anteriormente o llamando al Sr. Philip Sprague, Supervisor Ambiental, al 281-424-4505.

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. . *[For renewal applications that* ***do not*** *include a major amendment, include the following sentence:]* **Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

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 información adicional del Monument Chemical Baytown LLC a la dirección indicada arriba o llamando a Philip Sprague al __281-424-4505.

Fecha de emission _____ *[Date notice issued]*

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.

Monument Chemical Baytown LLC (CN604039297) opera Monument Chemical Baytown LLC RN100214832. una planta de fabricación y procesamiento de productos químicos orgánicos. La instalación está ubicada en 5501 West Baker Road, en Baytown, Condado de Harris, Texas 77520.

Para renovar el permiso del Sistema de Eliminación de Descarga de Contaminantes de Texas (TPDES) No. WQ0001914000 (EPA I.D. No. TX0059285) para autorizar la descarga de aguas residuales tratadas a través del emisario 001 en un volumen que no debe exceder un flujo promedio diario de 60,000 galones. Y descargar aguas pluviales a través del Emisario 002 con un flujo intermitente de volumen variable. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que las descargas de la instalación no contengan aguas residuales de proceso. Sólo las aguas residuales tratadas y las aguas pluviales son tratadas mediante un sistema de tratamiento biológico

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Kelly Keel, *Interim Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 19, 2023

Mr. Narayan Dave
Regulatory Manager
Monument Chemical Baytown, LLC
5501 West Braker Road
Baytown, Texas 77520

VIA EMAIL

Re: Application for Renewal Permit No. WQ0001914000 (EPA I.D TX0059285)
Issued to Monument Chemical Baytown, LLC
CN604039297, RN100214832

Dear Mr. Dave:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following items is requested before we can declare the application administratively complete. Please submit one original and two copies (including a cover letter) of the complete response.

1. Section 1, Application Fee on page 2 of the administrative report: We have found that the following additional outstanding fees and must be paid before we can process your application and issue the permit.

Fees

Account Number(s)	Fee Type(s)	Amount Owed
AC#23007129	LATE FEE 10 JAN 23	$118.28
CWQ SC00318657		
	TOTAL	**$118.28**

The payments should be mailed to TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, TX 78711-3088. Please send a copy of the checks in payment of the fees with your response. If you have any questions regarding the outstanding fees, you may contact the Revenues Operation Section at **512-239-0300**. Please use Mail Code 214 when submitting payment for the outstanding fees.

2. Core Data Form, Section III, item 22: Please confirm the name of the site where the action is taking place. The CDF submitted listed Monument Chemical Baytown, LLC. If the site name is different from what is currently listed, please send an updated CDF, page 2.

3. Administrative Report 1.0, Item 10 (D, E and F): Please completed this section of the Regulated Entity and Permitted Site and return as a response to this email.

4. The following is a portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit 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. Monument Chemical Baytown, LLC, 5501 West Baker Road, Baytown, Texas 77520, which owns an organic chemical manufacturing and processing plant, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001914000 (EPA I.D. No. TX0059285) to authorize the discharge of treated wastewater and stormwater at a volume not to exceed a daily average flow of 60,000 gallons per day via Outfall 001; and the discharge of stormwater an intermittent and flow-variable rate via Outfall 002. The facility is located at 5501 West Baker Road, Baytown, in Harris County, Texas 77520. The discharge route is from the plant site to Harris County Flood Control District (HCFCD) Ditch #O107-00-00; thence to West Fork Goose Creek; thence to Goose Creek; thence to Goose Creek Tidal, thence to Tabbs Bay. TCEQ received this application on October 6, 2023. The permit application will be available for viewing and copying at Sterling Municipal Library, 1 Mary Wilbanks Avenue, Baytown, Texas prior to the date this notice is published in the newspaper. 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=-95.02,29.763611&level=18

Further information may also be obtained from Monument Chemical Baytown, LLC at the address stated above or by calling Mr. Philip Sprague, Environmental Supervisor, at 281-424-4505.

New rule requirements under Title 30 Texas Administrative Code (TAC) Chapter 39 relating to public notices have been implemented. The deficiencies listed below are new items that need to be provided to meet the alternative language requirements.

5. Section 8, Item E, Item No. 5 of Administrative Report 1.0 indicates that public notices in Spanish are required. After confirming the portion of the NORI contained in this letter 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.**

6. Section 8, Item E, Item No. 5 of Administrative Report 1.0 indicates that public notices in Spanish are required. Please use the attached PLS Spanish template to translate the plain language summary into Spanish. **Please provide the PLS in a Microsoft Word document.**

7. Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. **Please provide the PLS in a Microsoft Word document.**

Please submit the complete response, addressed to my attention by November 2, 2023. If you should have any questions, please do not hesitate to call me at (512) 239-4658.

Sincerely,

Rachel Ellis

Rachel Ellis
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Attachment 1 - Industrial Discharge Renewal Spanish NORI
Attachment 2 - Industrial TPDES and TLAP PLS Form (Spanish)
Attachment 3 - Industrial TPDES and TLAP PLS Form

Re (Monument Chemical Baytown Facility)

CN604039297 Monument Chemical Baytown LLC

CHECKLIST FOR ADMIN REVIEW OF INDUSTRIAL INDIVIDUAL PERMIT APPLICATIONS

Permit No. WQ0001414000	**EPA ID** 0059289 (TX)	**MGD** ____
CN 604039297	**RN1** 102174832	**County** Harris **Region No.** 10
EPA Class. ☐ **Major** ☒ **Minor**	**App Received Date** .	**Expiration Date** ____
Status ☐ **Inactive** ☒ **Active**	**Segment No.** 2426	**Permit Type** ☒ **TPDES** ☐ **TLAP**
Authorization Type IND WW/SW	**Application Type** Renewal V	

Note: A minor facility is generally one in which the final flow is less than 1.0 MGD.

Application Review Date: 7/2

☐ A copy of the **groundwater review** was provided (for TLAP new, major amendment, SADD minor amendment, and all applications with (or proposing) Class B sludge provisions).

☐ For **new and major amendment applications that propose surface water discharge (TPDES)**, the standards review for RWA comments is included.

renewal w/o chg

☒ Coastal Zone sheet is included. Yes

Fees or Penalties Owed: ☒ No ☐ Yes Amount Owed: 118.28
Verified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Customer Name

ADMINISTRATIVE REPORT 1.0 – FOR ALL APPLICATIONS

1. APPLICATION INFORMATION AND FEES

☑ Current version of form used
☑ Type of application is marked
☐ Reason for amendment or modification (if applicable) Also Check Tech Report 1.0, Section 13.

Application Fees: Correct item is checked **and** payment verified in Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded.

Industrial Application Fee Table

EPA Classification	New	Major Amend.	Renewal	Minor Amendment or Modification without Renewal
Minor, **not** subject to categ stds	☐ $350	☐ $350	☐ $315	☐ $150
Minor, subject to categ stds	☐ $1,250	☐ $1,250	☑ $1,215	☐ $150
Major facility	**N/A** *	☐ $2,050	☐ $2,015	☐ $450

* *All new industrial facilities are designated as minor.*

663/674 68

2. APPLICANT INFORMATION

☑ CN is listed for existing customer.
☑ Legal name of applicant is listed (***the owner of the facility must apply for the permit***)
☑ Name and title of the person signing the application is listed and matches signature page.
☑ Indicated if applicant has overall financial responsibility

Notes: ____

Section 10 – d, e, f (not filled out) Need both PLS ✓ owes 118.28 ✓ Confirm RE Name COR ✓

3. CO-APPLICANT INFORMATION

☐ N/A – No Co-applicant.
☐ CN is listed for existing customer.
☐ Legal name of co-applicant is listed
☐ Name and title of the person signing the application is listed and matches signature page.
☐ Indicated if co-applicant has overall financial responsibility
☐ Legal name of co-applicant is listed ***(if required)***

4. CORE DATA FORM

☑ Core Data Form (CDF) is provided. A separate CDF is required for each customer.

Section I – General Information
☑ Reason for submittal is marked.
☑ Customer (CN) and Regulated Entity (RN) Reference Nos. provided – verify with Central Registry

Section II – Customer Information
☑ Customer legal name is provided and it matches name on admin report
☑ Texas SOS/Filing number is provided – verify with SOS
☑ Texas State Tax ID is provided – verify with Texas Comptroller
☑ Type of customer is marked – refer to information below

- ☑ **Corporation:** Check with Secretary of State (SOS). Verify the entity status and charter number – print page. Verify correct legal spelling of applicant's name. Check spelling with SOS against the name listed in the application. (Permit must be issued in name as filed with SOS.) The applicant must be "**In existence and active**" before the application can be processed further.
- ☐ **Those entities subject to state franchise taxes:** If applicable, check with Comptroller of Public Accounts (CPA) Verify the tax identification number is correct. Note: Non-profit organizations and partnerships are not subject to the state franchise tax
- ☐ **Individual: Complete Attachment 1 of Admin Report 1.0** The complete legal name, including the middle name; and all other information is required. This info is required by Chapter 26.027C of the Texas Water Code. A separate attachment is required for each individual.
- ☐ **Utility District:** Check iWDD to verify that district is not dissolved (inactive is O.K. to process)
- ☐ **Trust**: A copy of an executed trust agreement is provided. Verify that applicant's name is the same as the name in the trust agreement. NOTE: Executed trust must show signatures of trustees or beneficiaries forming the trust and in which county it is recorded.
- ☐ **Partnership:** Verify with Secretary of State (SOS) that partnership is registered, active, and has a filing number. Check spelling with SOS against the name listed in admin report; Check that SOS # is correct; Print page from SOS website. OR if the partnership is not listed with the SOS, the applicant must provide a copy of the partnership agreement. The agreement must: give the name of the partnership as provided on the application for permit; list names of partners; bear signatures of the partners; and state the terms of the partnership.
- ☐ **Municipality/Governmental Agencies/School Districts:** City, County, ISD, Fed, etc. – applicable info is listed.
- ☐ Other _____

☑ Number of employees is marked
☑ Customer role is marked
☑ Mailing address for the applicant is provided - verify on USPS. This address is for mailing the permit.
☑ Email address is provided
☑ Telephone number is provided

Section III – Regulated Entity Information

☒ Regulated Entity Name is provided and it matches name on admin report
☒ Street address or location description of facility is adequately described. If different from current permit, new permit may be required. Use GIS mapping to confirm street address.
☒ The county where the facility is located is provided
☒ The name of the nearest city is provided Harris / Baytown
☒ The zip code is provided
☒ The longitude and latitude of the facility is provided – check Map It link by searching for the Additional ID "AI" (WQ permit number) in Central Registry Internal Reporting Tool
☒ Primary SIC Code is provided
☒ Permit No. listed under TCEQ Programs and ID numbers - if not listed, add it
☐ **NOTE**: If other program ID numbers are listed and Update to Regulated Entity is checked in Section III, a copy of the CDF should be emailed to Central Registry EAMT at registry@tceq.texas.gov.

Section IV – Preparer Information

☒ Name, title, telephone number, and email address are provided

Section V – Authorized Signature

☒ Company name, title, printed name, phone number, signature, and date are provided

5. APPLICATION CONTACT INFORMATION

☒ Administrative and Technical contact name and address information is provided (must have at least one)

6. PERMIT CONTACT INFORMATION

☒ Permit (2) contact name(s) and address information is provided

7. BILLING CONTACT INFORMATION

☒ Billing contact name and address information is provided

8. DMR/MER CONTACT INFORMATION

☒ DMR contact name and address information is provided

9. NOTICE INFORMATION

☒ **Minor Amendment *without* Renewal** – NORI not required. Skip review of notice information.
☒ **N**ame, address and phone number of one person responsible for publishing NORI is provided.
☒ **M**ethod of sending NORI package is provided.
☐ **N**ame and phone number of contact to be in the NORI is provided.
☐ **L**ocation where application will be available is provided and is in the county where the facility is located - the location must be a building supported by taxpayer funds. Note: If discharge is directly into water body that borders two counties, application must be placed in a public facility in both counties and the notice must be published in both counties.
☒ Bilingual Items 1 – 5 are completed. If "Yes" to question 1 and "Yes" to either question 2, 3 or 4, then e.5 must be completed. Language: Yes, Spa
☐ Plain Language Summary in English is provided for all applications. Verify the customer's name, facility name and location, type of facility, and flow are consistent with the application and notice.
☐ Plain Language Summary is provided for any alternative language listed in Section 9, Item E, No. 5, if applicable.

Public Involvement Plan (PIP) All New or Major Amendment Applications

For all PIP forms:
☐ Section 1 is completed.
☐ Section 2 is completed. All municipal new and major amendment applications require public notice. Verify the geographic location responses are correct using the statistical area map.

If ALL boxes in Section 2 are checked and verified:
☐ Sections 3, 6, and 7 are completed.
☐ Section 4 is completed, or plain language summary was provided by separate attachment for Section 15.
☐ Section 5 is completed. Any languages over 5% in items d and e will require alternative language notice and plain language summary.

10. REGULATED ENTITY and PERMITTED SITE INFORMATION

☑ Regulated Entity No. is listed. If not, it is not a deficiency. Verify with Central Registry and PARIS.
☑ Name of project or site is provided. Should match AI name (Alt RE name) in Central Registry and PARIS.
☑ Marked if location address of the facility in the existing permit the same
☐ Owner of the facility identified in the application is the same as the name given in Section 3.A **NOTE: THE OWNER OF THE FACILITY IS REQUIRED TO APPLY FOR THE PERMIT**
(Refer to legal policy memo for complete definition and discussion of facility.)
☐ Marked whether ownership of the facility is public, private or both
☐ Owner of the land where permitted facility is or will be located is the **SAME** as the applicant.
☐ The owner of the land on which the facility is located is **DIFFERENT FROM** the owner of the facility: A copy of a lease agreement or easement, with a term for the duration of the permit, between applicant and landowner, has been provided. See Lease Agreement/Easement Memo dated 2/14/06, that states that a lease is sufficient for pond systems, and that details the provisions that a lease agreement or easement must contain. Lease must identify property by legal description or map.
OR landowner can apply as a co-permittee.

Effluent Disposal Site Owner:

☑ N/A - (no effluent disposal proposed)
☐ If land disposal is authorized in permit or proposed, the applicant **OWNS** land on which site is located
☐ If applicant **DOES NOT OWN** land where site is located, a long-term lease agreement is provided which includes: a term of at least 5 years; is current or it includes an option to renew the term; is between the current applicant and the landowner; and includes description of property by legal description or map.
☐ ***(For new TLAP permits only***: A copy of an executed option to purchase agreement may be provided to show that applicant will have ownership of the land upon permit approval.)

Sewage Sludge Disposal Site Owner:

☑ N/A - (no sludge disposal proposed)
☐ If sludge is authorized in permit or proposed, the applicant **OWNS** land on which disposal site is located, otherwise lease is needed unless Class B sludge is land applied. Check the permit under Sludge Provisions to determine if sludge is authorized. Note: For BLU sludge application – lease is not needed; landowner just needs to sign sludge affidavit (if different from applicant).

11. DISCHARGE/DISPOSAL INFORMATION

☐ Identified whether or not facility or discharge are on Native American Land (If yes, we do not have permit authority.)

☐ An ORIGINAL or equivalent FULL-SIZED USGS 7.5-minute topographic map (8½ x 11 acceptable for amendment and renewal applications) is provided and labeled showing:

- ☑ applicant's property boundary
- ☐ treatment facility boundaries
- ☑ point(s) of discharge (outfalls)
- ☑ discharge route for three miles downstream or until it reaches a classified segment
- ☐ effluent disposal site(s)
- ☐ pond(s)
- ☐ sludge disposal/land application site
- ☑ one-mile radius

All original or equivalent full-sized maps must show:

- ☐ Color map
- ☐ Clear contour lines
- ☐ Upper left corner must identify map as USGS
- ☐ Lower left corner, datum & project information
- ☐ Bottom, magnetic declination
- ☐ Bottom, must show scale
- ☐ Bottom, identify contour intervals
- ☐ Bottom, national map accuracy std.
- ☐ Bottom, show State of TX and quad location
- ☐ Around map, lat and long coordinates
- ☐ Bottom, quadrangle name
- ☐ Bottom, must identify map date

☐ For permits that allow sewage disposal the location description is adequately described. For an already-existing permit, check to see that the location has not changed.

Discharge Information:

☑ Checked if discharge info in permit is correct. If applicable, the discharge route description is adequately described and describes the discharge route to the nearest major watercourse. Changing the point of discharge and route from the current permit description requires a major amendment.

☑ The name of the city (or nearest city) where the outfall(s) is/will be located has been provided.
☑ The county where the outfall is located is provided. Baytown / Harris
☑ Marked item regarding authorization for discharge into a city, county, state or federal ditch. If applicable, correspondence is provided. Email TXDOT if discharge is to a **state** highway right-of-way or roadside ditch.
☐ For a daily average flow of 5 MGD or more: the names of all counties in Texas that are located within 100 miles downstream from the point of discharge.

Disposal Information:

☐ The written location description of the disposal site is adequately described. **(NOTE: A CHANGE IN LOCATION OR INCREASE IN ACREAGE REQUIRES A MAJOR AMENDMENT. A decrease in acreage may also be a major amendment (due to flow rate) - check with permit writer)**
☐ The name of the city (or nearest city) has been provided.
☐ The county where the disposal site is located is provided
☐ The longitude and latitude of the disposal site is provided.
☐ The written flow of effluent from the facility to the effluent disposal site is adequately described.
☐ The nearest watercourse to the disposal site is listed.

12. MISCELLANEOUS INFORMATION

☑ Indicates whether any former TCEQ employees who were paid for services regarding this application.

☑ Fees or Penalties Owed: ☑ No ☐ Yes - See page 1 of checklist _____

13. SIGNATURE PAGE

Note: The signature information below lists the proper signatories for the various entities; however, the current version of the application contains a paragraph referencing 30 TAC 305.44. The person signing the application verifies that he or she is authorized, under this rule, to sign the application. We must verify that the title meets the requirements or signatory authority has been delegated and proof has been provided.

☑ **Original Signature Page is required.**

☑ **Signature must be properly notarized – check that signature date and notarized date are the same.**

Applicant	Co-Applicant	
☐	☐	City - Elected official or principle executive officer of the city may be public works director.
☐	☐	Individual: only the individual signs for himself/herself.
☐	☐	Partnership: General Partner or exec officer
☑	☐	Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary)
☐	☐	Utility District: at least the level of vice president, on Board of Directors or District Manager
☐	☐	Water Authority: Regional managers.
☐	☐	School Districts: at least level of the Assistant Superintendent or board members.
☐	☐	Governmental Agencies: Division Directors or Regional Directors.
☐	☐	Trust: The trustee that has been identified in the trust agreement.
☐	☐	Other: _____

ADMIN REPORT 1.1 For All New or Major Amendment Applications

1. AFFECTED LANDOWNER INFORMATION

Landowner Map:

☐ The applicant's complete property boundaries are delineated which includes boundaries of all contiguous property owned by the applicant and the co-applicant

☐ The property boundaries of the landowners surrounding the applicant's complete property boundaries have been clearly delineated on the map (for lignite mines, see below).

☐ The location of the facility within applicant's property is shown.

For TPDES applications:

☒ The point(s) of discharge is clearly identified on the map and the discharge route(s) is highlighted.

☒ The scale of map is provided to measure one mile downstream **or** if discharge is into a lake, bay estuary, or affected by tides, ½ mile up & down stream is measured.

☐ The property boundaries of landowners adjacent to the discharge route(s) for one mile downstream from the point of discharge have been clearly delineated and the route is clearly delineated. **OR** If discharge is into a lake, bay estuary, or affected by tides, the property boundaries of landowners ½ mile up & downstream and those property owners across the lake along the shore line that fall within a ½ mile radius of the point of discharge are clearly delineated on the map.

(Note 1) If the application is a major amendment for a **lignite mine**, the map shall include the property boundaries of all landowners within a ½ mile radius of the newly proposed pond(s)/outfall(s). If notice has previously been given to all landowners within the ½ mile radius of the newly proposed pond(s)/outfall(s), identification of landowners isn't required; however, a written statement confirming that notice was previously given is required. (Note 2) For all other mines, all landowner's adjacent to the property boundaries where the mine is located must be identified.

For TLAP - land disposal of effluent (i.e., irrigation, evaporation, etc.):

☐ The boundaries of the disposal site are clearly identified on the map.

☐ The boundaries of all landowners surrounding the disposal site.

For All New and Major Amendment

☐ Cross-referenced list of landowners is provided

☐ USB with Microsoft Word document formatted for mailing labels (Avery 5160) or four sets of mailing labels were provided.

☐ Source of landowners' info was provided.

☐ Provided response regarding permanent school fund land. If information filled out on General Land Office, then indicate so on the contact sheet.

For All TPDES Permit Applications
SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

☒ SPIF is provided (TPDES only)

☒ SPIF Map is included or confirm USGS map is sufficient

TECHNICAL REPORT – INDUSTRIAL APPLICATIONS

☐ **Minor Amendment *without* Renewal.** Review not required. Just make sure report is provided.

☐ Description of type of activity and general nature of business.

☐ The flow volume for all outfalls is indicated in tables – Tech Report 1.0 Section 4
- ☐ Flow indicated is greater than permitted, a major amendment is required
- ☐ Flow indicated is less than permitted, confirm with applicant that they are requesting to reduce flow

☐ Amendment and Modification Requests in Tech Report 1.0 Section 13: Check to see if there are any amendment or modification requests.

☐ The permit authorizes irrigation/evaporation/subsurface disposal method, and the irrigation/evaporation/ subsurface information has been addressed in the technical report. If the acreage is more than is currently permitted, a major amendment is required.

The applicable worksheets must be completed:

- ☐ Worksheet 3.0 - required for land disposal of effluent
- ☐ Worksheet 3.1 - required for surface land disposal (new and major amendment only)
- ☐ Worksheet 3.2 - required for subsurface land disposal (new and major amendment only)
- ☐ Worksheet 3.3 - required for subsurface area drip dispersal systems (SADDS) (new and major amendment); may be required for renewal on a case-by-case basis.
- ☐ SADDS Applications: When the application is administratively complete, a copy of the application and a transmittal letter must be sent to the State Department of Health Services. See the folder titled "SADDS" (under the Individual Permit Review folder) for a template of the letter.

☐ Worksheet 9.0 – required for SADD applications

The Following Items Only Apply to Quarries in The John Graves Scenic Riverway

☐ Worksheet 10 must be completed

☐ Restoration plan must be submitted. Plan must be certified by a licensed Texas PE or a licensed Texas professional geoscientist.

☐ Reclamation plan must be submitted for a quarry located 200 - 1,500 feet from a perennial water body. Plan must be certified by a licensed Texas PE or a licensed Texas professional geoscientist.

☐ A technical demonstration document must be submitted for a quarry located 200 - 1,500 feet from a perennial water body.

☐ Financial Assurance documents must be submitted:
- ☐ Financial Assurance for the Restoration plan
- ☐ Financial Assurance for the Reclamation plan (if reclamation plan must be submitted)
- ☐ A copy of the original financial assurance documents (make a copy for our file) must be sent, via interoffice mail, to Jacob Engelke, of the Financial Assurance team. Accompanying the financial assurance documents, send the first 5 pages of the application, along with a copy of the restoration plan and a copy of the reclamation plan (if a reclamation plan is submitted). We must have confirmation from Jacob stating that the financial assurance is satisfactory, before we can declare the application administratively complete.

WHEN APPLICATION IS NOT ADMINISTRATIVELY COMPLETE:

☐ Complete NOD. See NOD SOP

WHEN APPLICATION IS ADMINISTRATIVELY COMPLETE:

NORI not required for minor amendment. Complete the Routing and Contact (list "n/a" for item about person responsible for publication of the notice) Blue sheets only.

☐ Complete NORI package. See NORI SOP

☐ Prepare SPIF forms (only for TPDES permits)

- ☐ checked application type
- ☐ entered county name
- ☐ entered administrative completeness date
- ☐ ensured permit number is on form
- ☐ *check agency receiving SPIF
  - ☐ **Minor amendments -** ALL agencies **BUT** Texas Historical Commission and Army Corps of Engineers
  - ☐ **Renewals –** All agencies **BUT** Texas Historical Commission
  - ☐ **New and Major Amendments –** All agencies
- ☐ check that the segment number (if known) is entered in receiving water body information.
- ☐ On the accompanying map, delineate the discharge route in such a way that copies will reflect the highlighted discharge route.

***NOTE:** Copy of SPIFs not required for Houston – US Fish and Wildlife and Galveston-US Army Corps of Engineers. Reference SPIF Routing Sheet.

Admin Complete PARIS Entry and Other Reminders

WQ Folder - Application Search

Application Summary Tab

☐ Verify application Summary and Details. Update as needed.

Admin Review Tab

☐ Admin Review Begin Date

☐ Admin Complete Date

☐ All NOD Sent, Response Received, Response Complete Dates

☐ SPIF Required (Yes/No)

☐ NORI Required (Yes/No)

Public Participation Tab –

☐ NORI – Date notice is filed with CCO

☐ Public Notice Details – Notice Contact Information

CR Folder – RE Search

AI Detail Screen – Verify AI Details and Physical Address. Update as needed.

View Contact List – Enter or Update Contact Information for these roles:

☒ Owner

☒ Applicant

☒ Technical

☒ Billing

☐ MER (TLAP only)

☐ Remove CN affiliation for MER contact (TLAP and TPDES)

View EPA ID from AI List

☐ View Customer List and verify CN is affiliated to EPA ID or add affiliation.

OTHER

☐ Copy notice (and labels for New and Major Amendments), to H:\EVERYONEWQ\Water Quality App Team\Notice of Receipts

☐ Copy NORI and PLS to H:\EVERYONEWQ\WQD Notices

☐ Copy contact sheet to H:\EVERYONEWQ\Blue Contact Sheets

☐ SADDS – Send letter and copy of complete application to Dept. of Health Services

☐ Email TXDOT if discharge is to a state highway right-of-way or roadside ditch

Franchise Tax Account Status

As of : 10/18/2023 15:38:15

This page is valid for most business transactions but is not sufficient for filings with the Secretary of State

MONUMENT CHEMICAL BAYTOWN, LLC	
Texas Taxpayer Number	32046732221
Mailing Address	5501 W BAKER RD BAYTOWN, TX 77520-1611
Right to Transact Business in Texas	ACTIVE
State of Formation	DE
Effective SOS Registration Date	01/26/2012
Texas SOS File Number	0801541441
Registered Agent Name	C T CORPORATION SYSTEM
Registered Office Street Address	1999 BRYAN ST., STE. 900 DALLAS, TX 75201

Water Quality Receipt Report

OCT-17-23 09:00 PM

Paid In By: MURFEE ENGINEERING COMPANY INC

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M203356A		CK	55648		10-NOV-21	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M203356B		CK	55648		10-NOV-21	-$50.00
WATER QUALITY PERMIT APPLICATION	WQP	M311512	13238001	CK	56467		10-FEB-23	-$100.00
WATER QUALITY PERMIT APPLICATION	WQP	M316110A		CK	56562		02-MAY-23	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M316110B		CK	56562		02-MAY-23	-$50.00
WATER QUALITY PERMIT APPLICATION	WQP	M400130	14848001	CK	25		05-SEP-23	-$100.00

Paid In By: NACOGDOCHES, CITY OF

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	M401274A	10342004	CK	330003		17-OCT-23	-$2000.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	M401274B	10342004	CK	330003		17-OCT-23	-$15.00

Paid In By: NANCY KOCH

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	PI00828722	615368	IFCE	582EA0005 25375		02-FEB-23	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00828721	615369	IFCE	582EA0005 25375		02-FEB-23	-$15.00
WATER QUALITY PERMIT APPLICATION	WQP	PI00893959	652913	IFCE	582EA0005 60710		21-JUL-23	-$400.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00893960	652914	IFCE	582EA0005 60710		21-JUL-23	-$50.00

Paid In By: NANCY REYNOLDS

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	PI00899127	656657	IFCE	582EA0005 64319		15-AUG-23	-$1600.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00899128	656658	IFCE	582EA0005 64319		15-AUG-23	-$15.00

Paid In By: NARAYAN DAVE

Acct.Name	Fee	Endorse. #	Ref#2	PayTyp	Check#	Card#	Tran.Date	Rec.Amnt
WATER QUALITY PERMIT APPLICATION	WQP	PI00829301	615916	IFCE	582EA0005 25737		03-FEB-23	-$300.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00829302	615917	IFCE	582EA0005 25737		03-FEB-23	-$15.00
WATER QUALITY PERMIT APPLICATION	WQP	PI00908452	663167	IFCE	582EA0005 70271		05-OCT-23	-$1200.00
NOTICE FEES WQP WATER QUALITY PMT	PTGQ	PI00908451	663168	IFCE	582EA0005 70271		05-OCT-23	-$15.00

Customer Name: MONTGOMERY, DAVID
Account #: 20013171 Debtcollpath Stage: UNCOL:EXHAUST Calls:

GPS	SC2809-002	LATE FEE FOR GPS0085491	TXR15F512	12-MAY-08	12-JUN-08	$.69
GPS	SC2810-004	LATE FEE FOR GPS0041272	TXR15F512	11-JUN-08	11-JUL-08	$.69
GPS	SC2810-003	LATE FEE FOR GPS0061361	TXR15F512	11-JUN-08	11-JUL-08	$.69
GPS	SC2810-002	LATE FEE FOR GPS0085491	TXR15F512	11-JUN-08	11-JUL-08	$.69
GPS	SC2810-001	LATE FEE FOR GPS0109528	TXR15F512	11-JUN-08	11-JUL-08	$.69
GPS	SC2811-001	LATE FEE FOR GPS0109528	TXR15F512	10-JUL-08	10-AUG-08	$.69
GPS	SC2811-002	LATE FEE FOR GPS0085491	TXR15F512	10-JUL-08	10-AUG-08	$.69
GPS	SC2811-003	LATE FEE FOR GPS0061361	TXR15F512	10-JUL-08	10-AUG-08	$.69
GPS	SC2811-004	LATE FEE FOR GPS0041272	TXR15F512	10-JUL-08	10-AUG-08	$.69
GPS	SC2812-004	LATE FEE FOR GPS0041272	TXR15F512	11-AUG-08	11-SEP-08	$.69
GPS	SC2812-002	LATE FEE FOR GPS0085491	TXR15F512	11-AUG-08	11-SEP-08	$.69
GPS	SC2812-001	LATE FEE FOR GPS0109528	TXR15F512	11-AUG-08	11-SEP-08	$.69
GPS	SC2812-003	LATE FEE FOR GPS0061361	TXR15F512	11-AUG-08	11-SEP-08	$.69
GPS	SC2901-004	LATE FEE FOR GPS0041272	TXR15F512	10-SEP-08	10-OCT-08	$.69
GPS	SC2901-003	LATE FEE FOR GPS0061361	TXR15F512	10-SEP-08	10-OCT-08	$.69
GPS	SC2901-002	LATE FEE FOR GPS0085491	TXR15F512	10-SEP-08	10-OCT-08	$.69
GPS	SC2901-001	LATE FEE FOR GPS0109528	TXR15F512	10-SEP-08	10-OCT-08	$.69
GPS	SC2902-004	LATE FEE FOR GPS0041272	TXR15F512	10-OCT-08	10-NOV-08	$.69
GPS	SC2902-002	LATE FEE FOR GPS0085491	TXR15F512	10-OCT-08	10-NOV-08	$.69
GPS	SC2902-001	LATE FEE FOR GPS0109528	TXR15F512	10-OCT-08	10-NOV-08	$.69
GPS	SC2902-003	LATE FEE FOR GPS0061361	TXR15F512	10-OCT-08	10-NOV-08	$.69
GPS	SC2903-003	LATE FEE FOR GPS0061361	TXR15F512	12-NOV-08	12-DEC-08	$.69
GPS	SC2903-004	LATE FEE FOR GPS0041272	TXR15F512	12-NOV-08	12-DEC-08	$.69
GPS	SC2903-002	LATE FEE FOR GPS0085491	TXR15F512	12-NOV-08	12-DEC-08	$.69
GPS	SC2903-001	LATE FEE FOR GPS0109528	TXR15F512	12-NOV-08	12-DEC-08	$.69
GPS	SC2904-004	LATE FEE FOR GPS0041272	TXR15F512	10-DEC-08	10-JAN-09	$.69
GPS	SC2904-003	LATE FEE FOR GPS0061361	TXR15F512	10-DEC-08	10-JAN-09	$.69
GPS	SC2904-002	LATE FEE FOR GPS0085491	TXR15F512	10-DEC-08	10-JAN-09	$.69
GPS	SC2904-001	LATE FEE FOR GPS0109528	TXR15F512	10-DEC-08	10-JAN-09	$.69
GPS	SC2905-004	LATE FEE FOR GPS0041272	TXR15F512	12-JAN-09	12-FEB-09	$.35
GPS	SC2905-002	LATE FEE FOR GPS0085491	TXR15F512	12-JAN-09	12-FEB-09	$.35
GPS	SC2905-001	LATE FEE FOR GPS0109528	TXR15F512	12-JAN-09	12-FEB-09	$.35
GPS	SC2905-003	LATE FEE FOR GPS0061361	TXR15F512	12-JAN-09	12-FEB-09	$.35
GPS	SC2906-003	LATE FEE FOR GPS0061361	TXR15F512	10-FEB-09	10-MAR-09	$.35
GPS	SC2906-004	LATE FEE FOR GPS0041272	TXR15F512	10-FEB-09	10-MAR-09	$.35
GPS	SC2906-001	LATE FEE FOR GPS0109528	TXR15F512	10-FEB-09	10-MAR-09	$.35
GPS	SC2906-002	LATE FEE FOR GPS0085491	TXR15F512	10-FEB-09	10-MAR-09	$.35
GPS	SC2907-004	LATE FEE FOR GPS0041272	TXR15F512	10-MAR-09	10-APR-09	$.35
GPS	SC2907-002	LATE FEE FOR GPS0085491	TXR15F512	10-MAR-09	10-APR-09	$.35
GPS	SC2907-003	LATE FEE FOR GPS0061361	TXR15F512	10-MAR-09	10-APR-09	$.35
GPS	SC2907-001	LATE FEE FOR GPS0109528	TXR15F512	10-MAR-09	10-APR-09	$.35
GPS	SC2908-003	LATE FEE FOR GPS0061361	TXR15F512	10-APR-09	10-MAY-09	$.35
GPS	SC2908-002	LATE FEE FOR GPS0085491	TXR15F512	10-APR-09	10-MAY-09	$.35
GPS	SC2908-001	LATE FEE FOR GPS0109528	TXR15F512	10-APR-09	10-MAY-09	$.35
GPS	SC2908-004	LATE FEE FOR GPS0041272	TXR15F512	10-APR-09	10-MAY-09	$.35
GPS	SC2909-004	LATE FEE FOR GPS0041272	TXR15F512	11-MAY-09	11-JUN-09	$.35
GPS	SC2909-003	LATE FEE FOR GPS0061361	TXR15F512	11-MAY-09	11-JUN-09	$.35
GPS	SC2909-002	LATE FEE FOR GPS0085491	TXR15F512	11-MAY-09	11-JUN-09	$.35
GPS	SC2909-001	LATE FEE FOR GPS0109528	TXR15F512	11-MAY-09	11-JUN-09	$.35

Total of delinquent transactions (Account): $512.40
Total of delinquent transactions (Customer): $512.40

Customer Name: MONUMENT CHEMICAL BAYTOWN LLC
Account #: 23007129 Debtcollpath Stage: AGENCY:REFERRED Calls:

CWQ	SC00318657	LATE FEE - JAN 2023		10-JAN-23	10-JAN-23	$118.28

Total of delinquent transactions (Account): $118.28
Total of delinquent transactions (Customer): $118.28

Customer Name: MOO TOWN DAIRY LLC
Account #: 20502089 Debtcollpath Stage: WHOLD:REFERRED,UNCOL:EXHAUST Calls:

GPW	GPW0010416	ANIMAL FEEDING PERMITFY12	TXG920577	31-OCT-11	30-NOV-11	$800.00
GPW	SC00066873	LATE FEE - DEC 2011		12-DEC-11	12-DEC-11	$40.00

Sterling Municipal Library

●●●●● Tripadvisor (1) · Library

Website | Directions

Book online | Contact us | Calendar

1 Mary Wilbanks Ave, Baytown, TX 77520

(281) 427-7331

Open · Closes 8 PM ▲

Wednesday	**9 AM - 8 PM**
Thursday	9 AM - 8 PM
Friday	9 AM - 5 PM
Saturday	10 AM - 5 PM
Sunday	1 PM - 5 PM
Monday	9 AM - 8 PM
Tuesday	9 AM - 8 PM

Suggest an edit · Manage this business

Add more information

Add photos

TEXAS SECRETARY of STATE
JANE NELSON

BUSINESS ORGANIZATIONS INQUIRY - VIEW ENTITY

Filing Number:	801541441	**Entity Type:**	Foreign Limited Liability Company (LLC)
Original Date of Filing:	January 26, 2012	**Entity Status:**	In existence
Formation Date:	N/A		
Tax ID:	32046732221	**FEIN:**	900787890

Name:	Monument Chemical Baytown, LLC
Address:	5501 West Baker Road Baytown, TX 77520 USA
Fictitious Name:	N/A
Jurisdiction:	DE, USA
Foreign Formation Date:	January 23, 2012

REGISTERED AGENT | FILING HISTORY | NAMES | MANAGEMENT | ASSUMED NAMES | ASSOCIATED ENTITIES | INITIAL ADDRESS

Name	Address	Inactive Date
C T Corporation System	1999 Bryan St., Ste. 900 Dallas, TX 75201-3136 USA	

Order | Return to Search

Instructions:

- To place an order for additional information about a filing press the 'Order' button.

Return to Sharenet

Central Registry Internal Reporting

Main Query Page | Program Area Search

Additional ID Detail

Additional ID Program	WWPERMIT		**Legacy System (Code)**	(WQ)	
Additional ID	WQ0001914000	**Status**	ACTIVE	**ID Type**	PERMIT
Name	MONUMENT CHEMICAL BAYTOWN FACILITY			**Sec. Addn Id**	TX0059285, EPA ID
Physical Address	5501 W BAKER RD, BAYTOWN, TX 77520 1611				
Description					
County	HARRIS	**Region**	REGION 12 - HOUSTON		
Nearest City	BAYTOWN	**State**	TX	**Nearest Zip**	77520
Latitude	29° 45 min 49 sec (29.763611)		**Longitude**	95° 1 min 12 sec (-95.02)	

Map It | Copy Map It URL | Prior Names

Industry Types

Classification System	Code	Name	Primary Flag
NAICS	325199	All Other Basic Organic Chemical Manufacturing	Y
SIC	2869	Industrial Organic Chemicals	Y

Industry Type: (1-2 of 2 Records)

Site Classifications

Program	Site Classification	Begin Date	End Date	CMS Min Freq Qty
WASTEWATER	INDUSTRIAL MINOR	01/1/1800	12/31/3000	0

Site Classification: (1-1 of 1 Record)

Customers

List All

CN Number	Name ▲	Role
CN600127765	ADVANCED AROMATICS LP	OWN
CN604039297	MONUMENT CHEMICAL BAYTOWN LLC	OWN

Customers: (1-2 of 2 Records)

Issued To

CN Number	Issued To Name	Start Date	'Issued To' History
CN600127765			View
CN600127765			View

Issued To: (1-2 of 2 Records)

Regulated Entity

Reference Number	RN100214832	**Name**	ADVANCED AROMATICS	**Stand-Alone**	N
Business Description	INDUSTRIAL PETROCHEMICAL & INDUSTRIAL ORGANIC CHEM				

Location

Address	5501 W BAKER RD, BAYTOWN, TX 77520 1611				
Description	5501 Baker Rd, Baytown, TX				
County	HARRIS		**Region**	REGION 12 - HOUSTON	
Nearest City	BAYTOWN	**State**	TX	**Nearest Zip**	77520
Latitude			**Longitude**		

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Last Modified 2023-06-02 - Production v2.1.3

Look Up a ZIP Code™ FAQs (https://www.usps.com/faqs.htm)

Go to

ZIP Code™ by Address

You entered:

5501 WEST BAKER ROAD
BAYTOWN TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again. (zip-code-lookup.htm?byaddress)**

5501 W BAKER RD
BAYTOWN TX **77520-1611**

Look Up Another ZIP Code™

Edit and Search Again (/zip-code-lookup.htm?byaddress)

Feedback

Location Mapper Version 4.2 User Guide Boundary Mapper



200ft

-95.012 29.764 Degrees

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 60403297		RN 100214832

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy): 10/3/2023

☐ 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)*: Monument Chemical Baytown LLC

If new Customer, enter previous Customer below:

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0801541441	32046732221		

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:

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15. Mailing Address: 5501 West Baker Rd

City	Baytown	State	TX	ZIP	77520	ZIP + 4	

16. Country Mailing Information *(if outside USA)*:

17. E-Mail Address *(if applicable)*: psprague@monumentchemical.com

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

(281) 424-4505		(-

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.)*

Monument Chemical Baytown LLC

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	5501 West Baker Road							
	City	Baytown	**State**	TX	**ZIP**	77520	**ZIP + 4**	
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:	29.76425		**28. Longitude (W) In Decimal:**	-95.023017	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	45	51.30	-95	01	22.86

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)
2869	2819	325199	325180

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

Chemical Manufacture

34. Mailing Address:	**5501 West Baker Road**							
	City	**Baytown**	**State**	**TX**	**ZIP**	**77520**	**ZIP + 4**	
35. E-Mail Address:	**psprague@monumentchemical.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 424-4505		( ) -

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	☐ Distri	☐ Edwards Aquifer	☐ Emissi ventory Air	☒ Industrial Hazardous Waste
				31239
☐ Municipal Solid Waste	☒ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
	2321			
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
	1914			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other: P2 POO965
	1914			EPA ID TXD072205578

SECTION IV: Preparer Information

40. Name:	Philip Sprague	41. Title:	Environmental Supervisor

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 424-4505		( ) -	psprague@monumentchemical.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:	Monument Chemical Baytown LLC	Job Title:	Site Manager
Name *(In Print)*:	Michael Schelling	Phone:	(281) 424- 4505
Signature:		Date:	10/3/23

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IINDUSTRIAL/MUNICIPAL APPLICATIONS ROUTE SHEET

New_____

Major Amend___

Minor Amend___

Renewal ✓

Major Facility___

Final Flow ≥ ***1MGD***____

Application Reviewer ✓ *Technical Reviewer*__ __

DATE APPLICATION RECEIVED 10/06/2023

PERMIT NUMBER 0001914000

PRE PREVIEW BY STANDARDS (RWA) _____ **N/A** X
Route original application of new and major amendments, discharge only. The original application must be returned to the applications team within 4 hours of receipt.

PRE PREVIEW BY GROUNDWATER _____ **N/A** X
TLAP Only: Route copy of new and major amend.

PRE TECH REVIEW REQUIRED _____ **N/A** X
Route copy of new, major amendments, major facilities or final flow ≥ 1MGD for Municipal.

COASTAL ZONE DETERMINATION _____ **N/A** X
Route copy of new application or major amendment when the facility is located in the noted county

COMMENTS ARE DUE TO APPLICATIONS TEAM BY CLOSING ON _____

*PRE TECH REVIEW PERFORMED BY*_____

THE ATTACHMENT SHOULD BE PROVIDED TO THE APPLICATIONS TEAM AT THE END OF THE 5TH WORKING DAY

Coastal Zone Determination

(To Be Verified Upon Receipt Of The Application)

Permit Number 0001914000 **County** Harris

Indicate Type of Application:

☒ **Renewal** ☐ **Minor Amendment** ☐ **Major Amendment**

Is the facility on the Coastal Zone list?

☒ YES (Coastal Zone statement will be included in the "Notice of Draft Permit") (If a major amendment - statement will be included in the "Notice of Receipt")

☐ NO (Do not include statement in any notice)

☐ **New** ☐ **Major Amendment**

Is the facility located in one of the following counties?

☐ Aransas	☐ Galveston	☐ Kleberg	☐ San Patricio
☐ Brazoria	☐ Harris	☐ Matagorda	☐ Victoria
☐ Calhoun	☐ Jackson	☐ Nueces	☐ Willacy
☐ Cameron	☐ Jefferson	☐ Orange	
☐ Chambers	☐ Kenedy	☐ Refugio	

☐ YES Send the application to Water Quality Assessment Team for Coastal Zone Determination.

☐ NO No further review needed (Do not include statement in any notice)

Water Quality Assessment Team's determination:

Is the discharge in the Coastal Zone?

☐ YES Coastal Zone statement shall be included in the Admin Complete Notice

☐ NO Do not include statement in the Admin Complete Notice

Return to Applications Team by _____

Original

WASTEWATER PERMIT RENEWAL APPLICATION

FOR

Monument Chemical

MONUMENT CHEMICAL BAYTOWN LLC.
5501 W. BAKER ROAD
BAYTOWN, TEXAS

TPDES PERMIT NO. WQ01914000
EPA ID. TX0059285
TCEQ CUSTOMER NO. CN604039297
TCEQ REGULATED ENTITY NO. RN100214832

Submitted to

Texas Commission on Environmental Quality
Austin, Texas

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Prepared By

Monument Chemical Baytown LLC

October 2023

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: Monument Chemical Baytown EPA ID No.: TX0 TXD072205578

Permit No.: WQ0001914000 Expiration Date: 4/2/2024

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☒ Active ☐ Inactive

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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: Renewal Only

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 2426 County Harris

Expiration Date 04/03/2024 Region 12-Houston

Permit Number 0001914000

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

h. Payment Information

Mailed

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

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

Epay

Voucher number: 663167 Copy of voucher attachment: 7

+ 663168

Item 2. Applicant Information (Instructions, Pages 25)

a. Customer Number, if applicant is an existing customer: CN604039297

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: Monument Chemical Baytown

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: Adam Pingel

Title: VP Global Operations 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: Click to enter text.

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): Narayan Dave

Title: Regulatory Manager Credential: Click to enter text.

Organization Name: Monument Chemical

Mailing Address: 5501 W. Baker Rd

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: ndave@monumentchemical.com

b. ☐ Administrative Contact . ☒ Technical Contact

☒ Mr. ☐ Ms. Full Name (First and Last): Philip Sprague

Title: Environmental Supervisor Credential: Click to enter text.

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 W. Baker Rd

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.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): Philip Sprague

Title: Environmental Supervisor Credential: Click to enter text.

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 W. Baker

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.com

b. ☒ Mr. ☐ Ms. Full Name (First and Last): Narayan Dave

Title: Regulatory Manager Credential: Click to enter text.

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 W. Baker Rd

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: ndave@monumentchemical.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): Philip Sprague

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

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 West Baker Road

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: NA Email: psprague@monumentchemical.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): Philip Sprague

Title: Environmental Supervisor Credential: Click to enter text.

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 W. Baker Rd

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.com

Item 9. NOTICE INFORMATION (Instructions, Pages 27

a. Individual Publishing the Notices

☒ Mr. ☐ Ms. Full Name (First and Last): Narayan Dave

Title: Regulatory Manager Credential: Click to enter text.

Organization Name: Monument Chemical Baytown

Mailing Address: 5501 West Baker Road

City: Baytown State: Texas Zip Code: 77520

Phone No: 281-424-4505 Fax No: NA Email: ndave@monumentchemical.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: ndave@monumentchemical.com

☐ Fax: Click to enter text.

☒ Regular Mail (USPS)

Mailing Address: 5501 West Baker Road

City: Baytown State: Texas Zip Code: 77520

c. Contact in the Notice

☒ Mr. ☐ Ms Full Name (First and Last): Philip Sprague

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

Organization Name: Monument Chemical Baytown

Phone No: 281-424-4505 Fax No: Click to enter text. Email: psprague@monumentchemical.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: Sterling Library Location within the building: Public Comment Shelf

Physical Address of Building: Mary E. Wilbanks Ave. (no number the street is only as long as the library)

City: Baytown 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: NA

Item 10. Regulated Entity and Permitted Site Information (Instructions Pages 28-30)

a. TCEQ issued Regulated Entity Number (RN), if available: RN100214832

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): Monument Chemical Baytown

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: 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.

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: 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 (In some cases, a lease may not suffice - see instructions). Attachment: Click to enter text.

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

☐ 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): 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.

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: Click to enter text.

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

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: Click to enter text.

f. City nearest the outfall(s): Baytown

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: NA

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

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

☐ Yes ☐ No or New Permit

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

j. City nearest the disposal site: NA

k. County in which the disposal site is located: NA

l. Disposal Site Latitude: Click to enter text. Longitude: Click to enter text.

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

n. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: NA

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: Click to enter text.

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: WQ00001914

Applicant Name: Monument Chemical Baytown

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

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): Adam Pingel

Signatory title: VP Global Operations

Signature: _____ Date: _____
(Use blue ink)

Subscribed and Sworn to before me by the said _____

on this _____ day of _____, 20_____.

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

_____
Notary Public [SEAL]

_____
County, Texas

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

Item 13. SIGNATURE PAGE (Instructions, Pages 32-33)

Permit No: WQ00001914

Applicant Name: Monument Chemical Baytown

Certification: I, Adam J. Pingel, 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): Adam J. Pingel

Signatory title: Vice President of Operations

Signature: _____ Date: 9/15/2023
(Use blue ink)

Subscribed and Sworn to before me by the said Adam J. Pingel

on this 15 day of September, 2023.

My commission expires on the 21 day of April, 2027.

Notary Public

[SEAL]

SAMANTHA MATA
Notary ID #130094985
My Commission Expires
April 21, 2027

Harris
County, Texas

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: Click to enter text.

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

☒ Readable/Writeable CD ☐ Four sets of labels

Attachment: Click to enter text.

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

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

☐ Yes ☒ No

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

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: 3

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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:** WQ00001914

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

   Name of Project or Site: Monument Chemical Baytown

   Physical Address of Project or Site: 5501 W. Baker Rd Baytown, TX 77520

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

Staple Check or Money Order in This Space

TCEQ ePay 10-3-2023
Voucher #s 663167 + 663168
Attachment #7

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.

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

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.

Monument Chemical Baytown LLC (CN604039297) operates Monument Chemical Baytown LLC RN100214832. an Organic chemical manufacturing and processing plant. The facility is located 5501 West Baker Road, in Baytown, Harris County, Texas 77520. To renew Texas Pollutant Discharge Elimination System (TPDES) permit No. WQ0001914000 (EPA I.D. No. TX0059285) to authorize the discharge of treated wastewater via Outfall 001 at a volume not to exceed a daily average flow of 60,000 gallons. And discharge stormwater via Outfall 002 at an intermittent flow of variable volume. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain No process waste waters. Only treated wastewater and stormwater is treated by *biological treatment system.*

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.

1. Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 #########).) 3. Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #########). 6. Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. . La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. .
13. Introduzca el resumen de la petición de solicitud aquí. <<*Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:*>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.
Se espera que las descargas de la instalación contengan14. Liste todos los contaminantes esperados aquí. . 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí. .

INSTRUCTIONS

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

15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Example

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.

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

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

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

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam. Low volume wastewater from blowdown of boiler Units 1 and 2 and metal cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal cleaning waste from equipment cleaning is generally disposed of off-site.

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).

Organic Chemical manufacturing and processing SIC Code 2869 NAICS Code 325199

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

Wastewater is generated by washing equipment - Utility blow down from Cooling Tower and industrial boiler- Domestic wastewater.
While process wastewater is generated during site operations, all process wastewater is segregated, collected, and shipped offsite for treatment and disposal.

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Water Quality Applications Team

[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
Pyrolysis Gas Oil		Aromatic Solvents, Naphthalene
Light Fuel Oil		Aromatic Solvents, Naphthalene
Raw Naphthalene Mixture		Gasoline Blend Stock
PLGO (Fuel Oil Pyrolysis		Heat Transfer Fluid

Attachment:

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: xxxx

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

☐ Yes ☒ No

If **yes**, provide background discussion:

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: **Flood insurance rate map 48201C0745M, effective 1/6/2017 per (fema.gov/ portal search)**

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:

Attachment:

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

☐ Yes ☐ No ☒ N/A (Renewal only)

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

☐ Yes ☐ No

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

If **no**, provide an approximate date of application submittal to the USACE:

2. TREATMENT SYSTEM (Instructions, Page 40)

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

Treatment Units	Dimensions	Treatment
- Oil-Water Separator	35' X 6' X 10'	Separation
- Treatment Pond 1	105 ' X 24'	Mixing and aeration
- Treatment Pond 2	134' X 87'	Biological / Aeration
- Clarifier	Diameter 20'	Flocculation / Clarification
- Chlorination Tank	6' X 8'	Retention chlorination to control E. Coli.

Followed by discharge through Outfall 001

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: xxxxxx

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 # 1	Pond # 2	Pond #	Pond #
Use Designation: (T) (D) (C) or (E)	T	T		
Associated Outfall Number	001	001		
Liner Type (C) (I) (S) or (A)	C	C		
Alt. Liner Attachment Reference				
Leak Detection System, Y/N	N	N		
Groundwater Monitoring Wells, Y/N	N	N		
Groundwater Monitoring Data Attachment	N	N		
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y		
Length (ft)	106	132		
Width (ft)	28	91		
Max Depth From Water Surface (ft), Not Including Freeboard	6	8		
Freeboard (ft)	2	2		
Surface Area (acres)	0.08	0.26		
Storage Capacity (gallons)	115,000	790,000		
40 CFR Part 257, Subpart D, Y/N	N	N		
Date of Construction	Pre 1982	Pre 1982		

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:

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 NA

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:

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:

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:

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:

4. OUTFALL/DISPOSAL METHOD INFORMATION (Instructions, Pages 42-43)

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

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

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

Outfall Latitude and Longitude

Outfall Number	Latitude-decimal degrees	Longitude-decimal degrees
001	29.45.15	95.01.00
002	29.45.15	95.01.00

Outfall Location Description

Outfall Number	Location Description
001	East end, center of plant 3 feet South of 002 Storm water
002	East end, center of plant 3 feet North of 001 Outfall

Description of Sampling Points (if different from Outfall location)

Outfall Number	Description of Sampling Point
001	"V" – Notch Weir
002	Open ended pipe

Outfall Flow Information – Permitted and Proposed

Outfall Number	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	0.06	0.08			
002	Report	Report			

Outfall Discharge – Method and Measurement

Outfall Number	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	Y	"V" Notch Weir
002	Y	Y	Gravity flow = 1-inch equals 35,000 gallons along with pump with gpm 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	N	Y		24	31	12
002	Y	N	Y			

Wastestream Contributions

Outfall No.: 001

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Utility Blow down		74%
Wash waters		19%
Stormwater		6%
Domestic		< 1 %

Outfall No.: 002

Contributing Wastestreams	Volume (MGD)	% of Total Flow
Stormwater only		100%

Outfall No.:

Contributing Wastestreams	Volume (MGD)	% of Total Flow

Attachment:

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: 6

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	1	3,000	
Boilers	1	12,842	

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:

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:**

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.

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:

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:

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

Attachment:

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:

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:

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)
NA	

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	S1013456A			
Owner	San Jacinto River Authority			
Operator	San Jacinto River Authority			

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. TX1013456

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:

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: 13 to 16 million gallons annually

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

d. 316(b) General Criteria

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

☐ Yes ☒ No

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

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:

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:

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.

Renewal only

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

WORKSHEET 1.0
EPA CATEGORICAL EFFLUENT GUIDELINES

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

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

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

☒ Yes ☐ No

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

40 CFR Effluent Guidelines

Industry	40 CFR Part
Organic Chemicals	414
However, while the facility would be subject to 414 effluent guidelines, the facility will not be discharging 414 process wastewater and therefore, the effluent from the facility should no longer be subject to 414 requirements.	

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
NA			

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units

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

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

Percentages of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metal	Appendix A – Cyanide
Bulk Organic chemical	100	NA	NA

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

Provide the applicable subcategory and a brief justification.

NA

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.

Non-Process wastewater See attached flow diagram #_5_____ for 002 stormwater flow.

Outfall 001 flows are as follows.

74% utility blowdown

19% wash water for cleaning vessels, equipment used to manufacture or store organic chemicals.

6% stormwater

1% sanitary wastewater

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
No new source			

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

(Signature)

2. GENERAL TESTING REQUIREMENTS (Instructions, Pages 56-58)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 6/12/2023 – 9/29/2023

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:** 6

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:**

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: 001

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

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<2.0	<2.0	<2.0	<2.0
CBOD (5-day)	<2.0	<2.0	<2.0	<2.0
Chemical oxygen demand	35.0	36.0	40.0	50.0
Total organic carbon	9.3	11.3	10.5	10.0
Dissolved oxygen	6.71 Grab	6.1 Grab	7.4 Grab	6.2 Grab
Ammonia nitrogen	0.17	0.17	0.25	0.15
Total suspended solids	8.1	9.3	10.0	9.2
Nitrate nitrogen	0.21	0.28	1.2	1.67
Total organic nitrogen	0.80	0.66	0.53	0.51
Total phosphorus	0.57	0.57	0.50	0.61
Oil and grease	<2.78 Grab	<2.78 Grab	<2.88 Grab	<2.78 Grab
Total residual chlorine	0.87 Grab	0.90 Grab	0.75 Grab	0.65 Grab
Total dissolved solids	23100	814	1470	910
Sulfate	56.7	56.4	63.1	61.7
Chloride	273	289	269	320
Fluoride	0.4	0.25	0.44	0.49
Total alkalinity (mg/L as $CaCO_3$)	106	108	106	106
Temperature (°F)	82 Grab	89 Grab	87 Grab	89 Grab
pH (standard units)	7.81 Grab	8.50 Grab	8.44 Grab	8.10 Grab

Table 2 for Outfall No.: 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	68.0	60.0	11.0	60.0	2.5
Antimony, total	<0.5	0.8	1.0	0.8	5
Arsenic, total	4.6	6.0	6.0	5.0	0.5
Barium, total	69	90.0	115.0	74.0	3
Beryllium, total	<0.5	<0.5	<0.5	<0.5	0.5
Cadmium, total	<0.5	<0.5	<0.5	<0.5	1
Chromium, total	0.5	0.7	1.0	0.5	3
Chromium, hexavalent	<1.0	<1.0	<1.0	<1.0	3
Chromium, trivalent	<1.0	<1.0	<1.0	<1.0	N/A
Copper, total	5.0	8.0	10.0	9.8	2
Cyanide, available	10.0	28.0	17.0	17.0	2/10
Lead, total	2.0	1.0	1.0	0.7	0.5
Mercury, total	0.003	0.004	0.005	0.004	0.005/0.0005
Nickel, total	2.0	2.0	2.0	2.7	2
Selenium, total	<1.0	<1.0	<1.0	<1.0	5
Silver, total	<0.5	<0.5	<0.5	<0.5	0.5
Thallium, total	<0.5	<0.5	<0.5	<0.5	0.5
Zinc, total	26.0	27.0	28	18.0	5.0

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: 001

Samples are (check one): ☐ **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	<10.0	<10.0	<10.0	<10	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]	<10.0	<10.0	<10.0	<10.0	10
o-Cresol [2-Methylphenol]	<5.0	<0.0	<5.0	<5.0	10
p-Cresol [4-Methylphenol]	<10.0	<10.0	<10.0	<10.0	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
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

TABLE 3 (Instructions, Page 58)

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

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

Table 3 for Outfall No.: 002

Samples are (check one): ☐ **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	<10.0	<10.0	<10.0	<10	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]	<10.0	<10.0	<10.0	<10.0	10
o-Cresol [2-Methylphenol]	<5.0	<0.0	<5.0	<5.0	10
p-Cresol [4-Methylphenol]	<10.0	<10.0	<10.0	<10.0	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
1,1-Dichloroethene [1,1-Dichloroethylene]					10
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4-Dimethylphenol	NA				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.: 001

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

Pollutant	Sample 1	Sample 2	Sample 3	Sample 4	MAL
Tributyltin (µg/L)	NA	NA	NA	NA	0.010
Enterococci (cfu or MPN/100 mL)	NA	NA	NA	NA	N/A
E. coli (cfu or MPN/100 mL)	102	<4	<4	<4	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.: NA

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.: 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)	☒	☐	0.22	0.28	0.20	1.67	—
Sulfide (as S)	☐	☒					—
Sulfite (as SO_3)	☐	☒					—
Surfactants	☐	☒					—
Boron, total	☐	☒					20
Cobalt, total	☐	☒					0.3
Iron, total	☐	☒					7
Magnesium, total	☐	☒					20
Manganese, total	☐	☒					0.5
Molybdenum, total	☐	☒					1
Tin, total	☐	☒					5
Titanium, total	☐	☒					30

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: 002

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)	☒	☐	0.44	0.94	0.81	0.94	–
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.: NA : 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.: NA : 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.: NA : 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.: NA : 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:

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description:

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:

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

Table 12 for Outfall No.: NA

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.: NA

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

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

WORKSHEET 3.0
LAND APPLICATION OF EFFLUENT

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

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

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

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

2. LAND APPLICATION AREA (Instructions, Page 70)

Land Application Area Information

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

3. ANNUAL CROPPING PLAN (Instructions, Page 70)

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

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

Attachment:

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

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

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

Attachment:

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

Well and Map Information Table

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

Attachment:

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

☐ Yes ☐ No

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

Attachment:

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

Attachment:

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

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

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

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

c. ☐ Copies of laboratory soil analyses

Attachment:

6. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 73)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 32, for a list of approved signatories.

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

_____

(Signature)

7. EFFLUENT MONITORING DATA (Instructions, Page 73)

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

Table 14 for Site No.: 001 (BOD reported less than MDL. Method detection limit was reported)

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

Date (mo/yr)	Daily Avg Flow (gpd)	BOD_5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
1 - 2021	152020	1.0	8.99	NA	NA		
2 – 2021	17671	1.8	7.5				
3 – 2021	12289	1.0	8.4				
4 – 2021	14747	1.2	9.0				
5 – 2021	14443	1.7	9.7				
6 – 2021	19917	2.2	9.4				
7 – 2021	17583	1.3	11.8				
8 – 2021	15197	1.0	12.6				
9 – 2021	22789	1.2	9.2				
10 – 2021	19072	1.3	10.5				
11 – 2021	15730	1.2	10.8				
12 – 2021	19590	1.0	12.4				
1 – 2022	19901	1.0	9.5				
2 – 2022	14957	1.0	9.6				
3 – 2022	17908	1.0	11.6				
4 – 2022	21494	1.4	11.0				
5 – 2022	18775	3.5	6.5				
6 – 2022	17025	2.8	12.8				
7 – 2022	28613	2.0	8.6				
8 – 2022	28770	2.0	9.9				
9 – 2022	27891	3.7	9.4				
10–2022	26251	2.0	11.3				
11-2022	27455	2.2	12.1				
12-2022	28190	2.2	10.9				

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

Attachment:

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

Additional Parameter Effluent Analysis

Date (mo/yr)	pH su max	Cl2 mg/l max	COD mg/l max	O&G mg/l avg	E. Coli Geomean		
001 Continued	Grab	Grab	Composite	Grab	Grab		
1 - 2021	8.53	1.4	21.5	0.89	4		
2 – 2021	8.97	3.0	47.4	0.79	365		
3 – 2021	8.61	0.92	69.2	0.89	4		
4 – 2021	8.74	0.74	44.6	1.62	4		
5 – 2021	8.50	1.0	39.2	1.35	4		
6 – 2021	8.66	0.71	36.6	1.02	4		
7 – 2021	8.65	0.77	101.0	0.96	4		
8 – 2021	8.60	1.21	101.0	1.11	4		
9 – 2021	8.60	0.93	33.0	1.92	4		
10 – 2021	8.95	1.16	32.6	1.20	4		
11 – 2021	8.90	0.78	79.0	1.27	4		
12 – 2021	8.65	0.97	145.0	1.36	6		
1 – 2022	8.72	1.18	63.6	1.20	6		
2 – 2022	8.67	1.28	28.3	1.20	4		
3 – 2022	8.87	1.45	56.7	1.2	4		
4 – 2022	8.7	0.96	32.7	1.2	4		
5 – 2022	8.7	0.60	88.0	2.89	4		
6 – 2022	8.98	0.42	50.0	5.0	4		
7 – 2022	8.85	0.88	51.0	3.55	4		
8 – 2022	8.95	0.59	42.0	2.80	4		
9 – 2022	8.83	0.45	57.0	2.78	4		
10–2022	8.76	0.61	71.0	2.78	4		
11-2022	8.56	1.01	41.0	2.82	27		
12-2022	8.51	1.66	44.0	3.02	4		

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

Attachment: Attach E. Coli Letter of explanation and corrective action for Feb 2021

8. POLLUTANT ANALYSIS (Instructions, Page 73)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): June 2023 to September 2023

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

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

Table 15 for Site No.: NA; Samples are (check one): ☐ Composites ☐ Grabs

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

Table 16: for Site No.: NA; Samples are (check one): ☐ Composites ☐ Grabs

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

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

Additional Parameter Effluent Analysis

Date (mo/yr)	pH su max	COD mg/l max	O&G mg/l max	Phenol mg/l max	Average flow gpd		
002 Stormwater	Grab	Grab	Grab	Grab			
1 - 2021	8.25	35.5	1.2	<0.05	55422		
2 – 2021	8.03	36.5	0.67	<0.05	36361		
3 – 2021	8.77	72.0	1.7	<0.05	32083		
4 – 2021	8.49	25.8	1.9	<0.05	62563		
5 – 2021	8.75	34.7	1.6	<0.05	87057		
6 – 2021	8.30	34.3	1.6	<0.05	149040		
7 – 2021	8.24	23.5	2.0	<0.05	160228		
8 – 2021	8.49	28.1	1.3	<0.05	109317		
9 – 2021	8.68	25.5	2.1	<0.05	141657		
10 – 2021	8.28	31.0	1.2	<0.05	71921		
11 – 2021	8.56	131.0	1.9	<0.05	46638		
12 – 2021	8.14	15.1	1.2	<0.05	57645		
1 – 2022	8.52	34.3	1.2	<0.05	87391		
2 – 2022	8.87	26.7	1.2	<0.05	45549		
3 – 2022	8.50	22.3	1.2	<0.05	28781		
4 – 2022	8.77	10.2	1.2	<0.05	91013		
5 – 2022	8.62	39.4	1.2	<0.05	71002		
6 – 2022	7.91	14.0	5.0	<0.05	52500		
7 – 2022	8.26	55.0	5.0	<0.05	76817		
8 – 2022	8.58	57.0	4.8	<0.05	84132		
9 – 2022	No Discharge						
10–2022	8.47	75.0	2.88	<0.05	81802		
11-2022	8.33	82.0	2.95	<0.05	103711		
12-2022	8.24	48.0	5.9	<0.05	79025		

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

Attachment:

WORKSHEET 3.1
SURFACE LAND APPLICATION AND EVAPORATION

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

1. EDWARDS AQUIFER (Instructions, Page 74)

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

☐ Yes ☒ No

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

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

☐ *30 TAC Chapter 213, Subchapter A*

☐ *30 TAC Chapter 213, Subchapter B*

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

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

Attachment:

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

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): NA

Design application rate (acre-ft/acre/yr):

Design application frequency (hours/day):

Design application frequency (days/week):

Design total nitrogen loading rate (lbs nitrogen/acre/year):

Average slope of the application area (percent):

Maximum slope of the application area (percent):

Irrigation efficiency (percent):

Effluent conductivity (mmhos/cm):

Soil conductivity (mmhos/cm):

Curve number:

Describe the application method and equipment:

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

Attachment:

3. EVAPORATION PONDS (Instructions, Page 75)

a. Daily average effluent flow into ponds: NA gallons per day

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

Attachment:

4. EVAPOTRANSPIRATION BEDS (Instructions, Page 75)

a. Provide the following information on the evapotranspiration beds:

Number of beds: NA

Area of bed(s) (acres):

Depth of bed(s) (feet):

Void ratio of soil in the beds:

Storage volume within the beds (include units):

Description of any lining to protect groundwater:

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

Attachment:

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

Attachment:

5. OVERLAND FLOW (Instructions, Page 75)

a. Provide the following information on the overland flow:

Area used for application (acres): NA

Slopes for application area (percent):

Design application rate (gpm/foot of slope width):

Slope length (feet):

Design BOD_5 loading rate (lbs BOD_5/acre/day):

Design application frequency (hours/day):

Design application frequency (days/week):

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

Attachment:

WORKSHEET 3.2
SUBSURFACE IRRIGATION SYSTEMS (NON-DRIP)

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

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

1. EDWARDS AQUIFER (Instructions, Page 76)

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

☐ Yes ☐ No NA

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

☐ Yes ☐ No

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

2. SUBSURFACE APPLICATION (Instructions, Page 76)

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

☐ Conventional drainfield, beds, or trenches NA
☐ Low pressure dosing
☐ Other:

b. Provide the following information on the irrigation operations:

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

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

Attachment:

WORKSHEET 3.3
SUBSURFACE AREA DRIP DISPERSAL SYSTEMS

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

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

1. EDWARDS AQUIFER (Instructions, Page 76)

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

☐ Yes ☐ No NA

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

☐ Yes ☐ No NA

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

2. ADMINISTRATIVE INFORMATION (Instructions, Page 77)

a. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility: Monument Chemical Baytown LLC

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

☒ Yes ☐ No

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

c. Provide the legal name of the owner of the SADDS: NA

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

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

3. SADDS (Instructions, Pages 78-79)

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

- ☐ Subsurface drip/trickle irrigation NA
- ☐ Surface drip irrigation
- ☐ Other:

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

Attachment:

c. Provide the following information on the SADDS:

Application area (acres):

Soil infiltration rate (inches/hour):

Average slope of the application area:

Maximum slope of the application area:

Storage volume (gallons):

Major soil series:

Depth to groundwater (feet):

Effluent conductivity (mmhos/cm):

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

☐ Yes ☐ No

If **yes**, the facility may propose a hydraulic application rate up to, but not to exceed, 0.1 gal/ft²/day.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

- Hydraulic application rate (gal/square foot/day):
- Nitrogen application rate (gal/square foot/day):

g. Provide the following dosing information:

Number of doses per day:

Dosing duration per area (hours):

Rest period between doses (hours):

Dosing amount per area (inches/day):

Number of zones:

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

☐ Yes ☐ No

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

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

  Attachment:

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

  Attachment:

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

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

Attachment: NA

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

Attachment:

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

Attachment:

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

Attachment:

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

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

☐ Yes ☐ No NA

Source:

If **yes**, describe how the site will be protected from inundation:

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

☐ Yes ☐ No

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

Attachment:

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

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

Attachment: NA

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

☐ Yes ☐ No

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

Attachment:

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:

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

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

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

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: feet NA

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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: East Harris County Flood Control ditch (Goose Creek)

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

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

☐ Man-Made Channel or Ditch
☒ Stream or Creek
☐ Freshwater Swamp or Marsh
☐ Tidal Stream, Bayou, or Marsh
☐ Open Bay
☐ Other, specify:

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

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

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

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

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

☐ USGS flow records
☒ personal observation
☐ historical observation by adjacent landowner(s)
☐ other, specify:

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

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

☐ Yes ☒ No

If **yes**, describe how:

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

Date and time of observation: Date & time here

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: Golf Course drainage

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: Rainwater run off

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

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

WORKSHEET 4.1
WATERBODY PHYSICAL CHARACTERISTICS

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

Complete the transects downstream of the existing or proposed discharges.

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

a. Date of study: NA Time of study:

Waterbody name:

General location:

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

☐ perennial ☐ intermittent with perennial pools ☐ impoundment

c. No. of defined stream bends:

Well: Moderately: Poorly:

d. No. of riffles:

e. Evidence of flow fluctuations (check one):

☐ Minor ☐ Moderate ☐ Severe

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

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

Stream Transect Data

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

* riffle, run, glide, or pool

** channel bed to water surface

2. SUMMARIZE MEASUREMENTS (Instructions, Page 84)

Provide the following information regarding the transect measurements:

Streambed slope of entire reach (from USGS map in ft. /ft.): NA

Approximate drainage area above the most downstream transect from USGS map or county highway map (square miles):

Length of stream evaluated (ft):

Number of lateral transects made:

Average stream width (ft):

Average stream depth (ft):

Average stream velocity (ft/sec):

Instantaneous stream flow (ft^3/sec):

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

Flow fluctuations (i.e., minor, moderate, or severe):

Size of pools (i.e., large, small, moderate, or none):

Maximum pool depth (ft):

Total number of stream bends:

Number well defined:

Number moderately defined:

Number poorly defined:

Total number of riffles:

WORKSHEET 5.0
SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

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

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Attachment:

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

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

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

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

Attachment:

b. Provide the following information for each disposal site:

Disposal site name:

TCEQ Permit/Registration Number:

County where disposal site is located:

c. Method of sewage sludge transportation: ☐ truck ☐ train ☐ pipe ☐ other:

TCEQ Hauler Registration Number:

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

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

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

Attachment:

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

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

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

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

Attachment:

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

WORKSHEET 6.0
INDUSTRIAL WASTE CONTRIBUTION

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

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

1. ALL POTWS (Instructions, Page 87)

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

Industrial User Information NA

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No NA

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

Attachment:

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

☐ Yes ☐ No

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

Attachment:

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

Effluent Parameters Measured Above the MAL

Pollutant	Concentration	MAL	Units	Date

Attachment:

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

☐ Yes ☐ No

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

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

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

a. Mr. or Ms.: NA First/Last Name:

Organization Name: SIC Code:

Phone number: Email address:

Physical Address: City/State/ZIP Code:

Attachment:

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

Attachment:

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

d. Flow rate information

Flow rate information

Effluent Type	Discharge (gallons per day)	Discharge Frequency (continuous, batch, or intermittent)
Process wastewater	NA	
Non-process wastewater	max 60,000	

e. Pretreatment Standards

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

☐ Yes ☐ No

ii. Is the SIU subject to categorical pretreatment standards?

☐ Yes ☐ No

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

SIUs Subject To Categorical Pretreatment Standards

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

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

☐ Yes ☐ No

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

WORKSHEET 7.0
STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

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

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

1. APPLICABILITY (Instructions, Page 90)

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

☒ Yes ☐ No

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

2. STORMWATER OUTFALL COVERAGE (Instructions, Page 91)

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

Authorization coverage

Outfall	Authorized Under MSGP	Authorized Under Individual Permit
002	☐	☒
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

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

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

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

3. SITE MAP (Instructions, Page 91)

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

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

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

Attachment: 3

4. FACILITY/SITE INFORMATION (Instructions, Pages 91-92)

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

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)
002	No changes – not applicable	

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

Wettest month: August

Average rainfall for wettest month (total inches): 5 inches

25-year, 24-hour rainfall (inches): Approximately 10 inches

Source: From past history

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment: None, material stored in bulk storage tanks**

d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment: Process self-contained, operations under vacuum**

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: **Dike walls for containment, valves for drains closed or locked, Facility grading, earthen clay berms, padded and curbed areas, cement storm water ditch with positive close gate, and pump seal leak detectors.**

5. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 92)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   vi. performing pro bono work for a governmental agency or charitable organization.

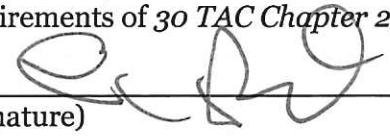
b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 32, for a list of approved signatories.

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



(Signature)

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

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 6-21-2023 – 9-17-2023

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

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

Table 17 Pollutant Analysis for Outfall No.: 002

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids	12.5				1	—
Chemical oxygen demand	41				1	—
Total organic carbon	7.9				1	—
Oil and grease	<2.90				1	—
Arsenic, total	0.001				1	0.0005
Barium, total	0.03				1	0.003
Cadmium, total	<0.0005				1	0.001
Chromium, total	0.002				1	0.003
Chromium, trivalent	0.002				1	—
Chromium, hexavalent	0.001				1	0.003
Copper, total	0.01				1	0.002
Lead, total	0.002				1	0.0005
Mercury, total	0.000007				1	0.000005
Nickel, total	0.002				1	0.002
Selenium, total	<0.001				1	0.005
Silver, total	<0.0005				1	0.0005
Zinc, total	0.1				1	0.005

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

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

Table 18 Pollutant Analysis for Outfall No.: 002

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled
Phosphorous	0.09				1
Nitrate-nitrite	0.8				1
Iron	0.5				1
Aluminum	0.5				1

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

Attachment:

7. STORM EVENT DATA (Instructions, Page 94)

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

Date of storm event: 9-15-2023

Duration of storm event (minutes): 300

Total rainfall during storm event (inches): 3.00

Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours): 12

Maximum flow rate during rain event (gallons/minute): 200

Total stormwater flow from rain event (gallons): 203,451

Provide a description of the method of flow measurement or estimate: ***1 inch rainfall equals 35,000 gallons and also pump has a gpm gauge on the DCS***

WORKSHEET 8.0
AQUACULTURE

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

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

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

Production Pond Descriptions:

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

Total surface area of all ponds:

Raceway Descriptions:

Number of Raceways	Dimensions (include units)
NA	

Fabricated Tank Descriptions:

Number of Tanks	Dimensions (include units)
NA	

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

☐ Yes ☒ No

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

Attachment:

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

☐ Yes ☒ No

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

Attachment:

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

2. SPECIES IDENTIFICATION (Instructions, Page 96)

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

Stock Species Information

Species	Source of Stock	Origin of Stock	Disease Status	Authorizations
NA				

Attachment:

3. STOCK MANAGEMENT PLAN (Instructions, Page 96)

Attach a detailed stock management plan.

Attachment: NA

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

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

Attachment: NA

5. SOLID WASTE MANAGEMENT (Instructions, Page 97)

Attach a description of the solid waste-disposal practices.

Attachment: NA

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

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

Attachment:

WORKSHEET 9.0
CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

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

Reg. No. 5

Class V Well Designation Code: NA

SECTION I GENERAL INFORMATION (Instructions, Page 101)

Provide the requested information for Items 1 through 8.

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

SECTION II PROPOSED DOWN HOLE DESIGN

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

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

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

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

12. System(s) Dimensions: NA
13. System(s) Construction:

SECTION IV SITE HYDROGEOLOGICAL AND INJECTION ZONE DATA

Provide the information requested in Items 14 through 31.

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

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

    - Name:
    - Thickness:

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

SECTION V SITE HISTORY

Provide the information requested in Items 32 through 35

32. Type of Facility: NA

33. Contamination Dates:

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

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

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

CLASS V INJECTION WELL DESIGNATIONS

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

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

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

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

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

5F01 Agricultural Drainage (IW that receive agricultural runoff)

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

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

5W09 Untreated Sewage

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

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

5W12 WTTP disposal

5W20 Industrial Process Waste-disposal Wells

5W31 Septic System (Well Disposal method)

5W32 Septic System Drainfield Disposal

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

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

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

5X27 Other Wells

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

5X29 Abandoned Drinking Water Wells (waste disposal)

WORKSHEET 10.0
QUARRIES IN THE JOHN GRAVES SCENIC RIVERWAY

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

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

1. EXCLUSIONS (Instructions, Pages 101-102)

a. Is this a municipal solid waste facility?

☐ Yes ☒ No NA

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

☐ Yes ☒ No

c. Is this a coal mine?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

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

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

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

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

a. Attach a Restoration Plan: NA

b. Amount of Financial Assurance for Restoration: $

Mechanism:

c. Attach a Technical Demonstration:

d. Attach a Reclamation Plan:

e. Amount of Financial Assurance for Reclamation: $

Mechanism:

WORKSHEET 11.0
COOLING WATER SYSTEM INFORMATION

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

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

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

Cooling Water System Data	**NA**
Total DIF	
Total AIF	
Intake Flow Uses (%)	
Contact cooling	
Non-contact cooling	
Process uses	
Other	

b. Attach the following information:

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

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

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

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

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

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

Attachment:

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

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

Cooling Water Intake Structure(s) Data

CWIS ID	S1013456A				
DIF					
AIF					
Intake Flow Uses (%)	100%				
Contact cooling	0				
Non-contact cooling	100%				
Process uses	Coolong				
Other					
Latitude	29.9243				
Longitude	-95.1253				

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

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

ii. Engineering calculations for each CWIS.

Attachment:

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

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

Source Waterbody Data

CWIS ID	S1013456A				
Source waterbody	San Jacinto River Authority				
Mean annual flow	1,346,183				
Source	Canal				

b. Attach the following information regarding the source waterbody.

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

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

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

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

Attachment:

4. OPERATIONAL STATUS (Instructions, Page 107)

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

☐ Yes ☒ No

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

i. Describe the operating status of each individual unit, including age, capacity utilization rate (or equivalent) for the previous five years (a minimum of 60 months), and any seasonal changes in operation.

ii. Describe any extended or unusual outages or other factors which significantly affect current data for flow, impingement, entrainment.

iii. Identify any operating unit with a capacity utilization rate of less than 8 percent averaged over a contiguous period of two years (a minimum of 24 months).

iv. Describe any major upgrades completed within the last 15 years, including but not limited to boiler replacement, condenser replacement, turbine replacement, or changes of fuel type.

Attachment:

b. Process Units

i. Is this application for a facility which has process units that use cooling water (other than for power production or steam generation)?

☐ Yes ☒ No

If **no**, proceed to Item 4.c. If **yes**, continue.

ii. Does the facility use or intend to use reductions in flow or changes in operations to meet the requirements of *40 CFR § 125.94(c)*?

☐ Yes ☐ No

If **no**, proceed to Item 4.c. If **yes**, attach descriptions of the following information:

- Individual production processes and product lines
- The operating status, including age of each line and seasonal operation
- Any extended or unusual outages that significantly affect current data for flow, impingement, entrainment, or other factors
- Any major upgrades completed within the last 15 years and plans or schedules for decommissioning or replacement of process units or production processes and product lines.

Attachment:

c. Is this an application for a nuclear power production facility?

☐ Yes ☒ No

If **no**, proceed to Item 4.d. If **yes**, attach a description of completed, approved, or scheduled upgrades and the Nuclear Regulatory Commission relicensing status for each unit at the facility.

Attachment:

d. Is this an application for a manufacturing facility?

☐ Yes ☐ No

If **no**, proceed to Worksheet 11.1. If **yes**, attach descriptions of current and future production schedules and any plans or schedules for any new units planned within the next five years (a minimum of 60 mos)

Attachment:

WORKSHEET 11.1
IMPINGEMENT MORTALITY

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID:

1. IMPINGEMENT COMPLIANCE TECHNOLOGY SELECTION (Instructions, Page 108)

Check the box next to the method of compliance for the Impingement Mortality Standard selected by the facility.

☐ NA Closed-cycle recirculating system(CCRS) [*40 CFR § 125.94(c)(1)*]
☐ 0.5 ft/s Through-Screen Design Velocity [*40 CFR § 125.94(c)(2)*] – Proceed to Worksheet 11.2
☐ 0.5 ft/s Through Screen Actual Velocity [*40 CFR § 125.94(c)(3)*]
☐ Existing offshore velocity cap [*40 CFR § 125.94(c)(4)*] – Proceed to Worksheet 11.2
☐ Modified traveling screens [*40 CFR § 125.94(c)(5)*]
☐ System of technologies [*40 CFR § 125.94(c)(6)*]
☐ Impingement mortality performance standard [*40 CFR § 125.94(c)(7)*]
☐ De minimis rate of impingement [*40 CFR § 125.94(c)(11)*]
☐ Low capacity utilization power-generation facilities [*40 CFR § 125.94(c)(12)*]

If 0.5 ft/s Through-Screen Design Velocity [*40 CFR § 125.94(c)(2)*] or existing offshore velocity cap [*40 CFR § 125.94(c)(4)*] was selected, proceed to Worksheet 11.2. Otherwise, continue to Item 2.

2. IMPINGEMENT COMPLIANCE TECHNOLOGY INFORMATION (Instructions, Pages 108-109)

Complete the following sections based on the selection made for item 1 above.

a. CCRS [*40 CFR § 125.94(c)(1)*]

☐ NA Check this box to confirm the CWS meets the definition of CCRS located at *40 CFR § 125.91(c)* and provide a response to the following questions.

i. Does the facility use or propose to use a CWIS to replenish water losses to the CWS?

☐ Yes ☐ No

If **no**, proceed to item a.ii. If **yes**, provide the following information as an attachment and continue.

1. CWIS ID
2. 12 months of intake flow data for any CWIS used for make-up intake flows to replenish cooling water losses, excluding intakes for losses due to blowdown, drift, or evaporation.
3. A narrative description of any physical or operational measures taken to minimize make-up withdraws.

Attachment:

NOTE: Do not complete a separate Worksheet 11.1 for a make-up CWIS.

ii. Does the facility use or propose to use cooling towers?

☒ Yes ☐ No

If **no**, proceed to Worksheet 11.2. If **yes**, provide the following information and proceed to Worksheet 11.2.

1. Average number of COCs prior to blowdown:

Average COCs prior to blowdown

Cooling Tower ID				
COCs				

2. Attach COC monitoring data for each cooling tower from the previous year (a minimum of 12 months)

Attachment:

3. Maximum number of COCs each cooling tower can accomplish based on design of the system.

Calculated COCs prior to blowdown

Cooling Tower ID				
COCs				

4. Describe conditions that may limit the number of COCs prior to blowdown, if any, including but not limited to permit conditions:

b. 0.5 ft/s Through Screen Actual Velocity [*40 CFR § 125.94(c)(3)*]

Provide daily intake flow measurement monitoring data from the previous year (a minimum of 12 months) as an attachment and proceed to Worksheet 11.2.

Attachment:

c. Modified traveling screens [*40 CFR § 125.94(c)(5)*]

Provide the following information as an attachment and proceed to Worksheet 11.2.

i. A description of the modified traveling screens and associated equipment.

ii. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods

iii. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment:

d. System of technologies [*40 CFR § 125.94(c)(6)*] or impingement mortality performance standard [*40 CFR § 125.94(c)(7)]*

Provide the following information as an attachment and proceed to Worksheet 11.2.

i. A description of the system of technologies used or proposed for use by the facility to achieve compliance with the impingement mortality standard.

ii. A site-specific impingement technology performance optimization study that includes a narrative description of the biological data collection methods.

iii. Biological sampling data from the previous two years (a minimum of 24 months).

Attachment:

e. De minimis rate of impingement [*40 CFR § 125.94(c)(11)*]

Provide the following information and proceed to Worksheet 11.2.

i. Attach monitoring data from the previous year (a minimum of 12 months) of intake flow measured at a frequency of 1/day on days of operation.

Attachment:

ii. If the rate of impingement caused by the CWIS is extremely low (at an organism or age-one equivalent count), attach supplemental information to Worksheet 11.0, item 1.b.vi. to support this determination.

Attachment:

f. Low capacity utilization power-generation facilities [*40 CFR § 125.94(c)(12)*]

Attach monthly utilization data from the previous 2 years (a minimum of 24 months) for each operating unit and proceed to Worksheet 11.2.

Attachment:

WORKSHEET 11.2
SOURCE WATER BIOLOGICAL DATA

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** source waterbody of a CWIS for which a facility has selected an Impingement Mortality Technology Option described at *40 CFR §§ 125.94(c)(1)-(7)*.

Name of source waterbody: NA

1. SPECIES MANAGEMENT (Instructions, Page 110)

a. The facility has obtained an incidental take permit for its cooling water intake structure(s) from the USFWS or the NMFS.

☐ Yes ☐ No

If yes, attach any information submitted in order to obtain that permit, which may be used to supplement the permit application information requirements of paragraph *40 CFR § 125.95(f)*.

Attachment:

b. Is the facility requesting a waiver from application requirements at *40 CFR § 122.21(r)(4)* in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent?

☐ Yes ☐ No

If **yes**, attach a copy of the most recent managed fisheries report to TPWD, or equivalent.

Attachment:

c. There are no federally listed threatened or endangered species or critical habitat designations within the source water body.

☐ True ☐ False

2. SOURCE WATER BIOLOGICAL DATA (Instructions, Pages 110-111)

New Facilities (Phase I, Track I and II)

- Provide responses to all items in this section and stop.

Existing Facilities (Phase II)

- If the answer to **1.b.** above was **no**, provide responses to all items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **true**, do not complete any items in this section and proceed to Worksheet 11.3.
- If the answer to **1.b.** was **yes** and **1.c.** was **false**, attach a response for any item in this section that is not contained within the most recent TPWD, or equivalent and proceed to Worksheet 11.3.

Attachment: NA

a. A list of the data requested at *40 CFR § 122.21(r)(4)(ii)* through *(vi)* that are not available, and efforts made to identify sources of the data.

b. Provide a list of species (or relevant taxa) in the vicinity of the CWIS and identify the following information regarding each species listed.

- all life stages and their relative abundance,
- identification of all species and life stages that would be most susceptible to impingement and entrainment,
- forage base,
- significance to commercial fisheries,
- significance to recreational fisheries,
- primary period of reproduction,
- larval recruitment, and
- period of peak abundance for relevant taxa.

c. Data representative of the seasonal and daily activities (e.g., feeding and water column migration) of biological organisms in the vicinity of the CWIS(s).

d. Identify all threatened, endangered, and other protected species that might be susceptible to impingement and entrainment at the CWIS(s).

e. Documentation of any public participation or consultation with federal or state agencies undertaken.

The following is required for existing facilities only. Include the following information with the above listed attachment.

f. Identify any protective measures and stabilization activities that have been implemented and provide a description of how these measures and activities affected the baseline water condition in the vicinity of the intake.

g. A list of fragile species, as defined at *40 CFR § 125.92(m)*, at the facility. The applicant need only identify those species not already identified as fragile at *40 CFR § 125.92(m)*.

NOTE: New units at an existing facility are not required to resubmit this information if the cooling water withdrawals for the operation of the new unit are from an existing intake.

WORKSHEET 11.3
ENTRAINMENT

This worksheet **is required** for all TPDES permit applications that **meet the conditions outlined in Technical Report 1.0, Item 12**. Complete one copy of this worksheet for **each** individual CWIS the facility uses or proposes to use.

CWIS ID: NA

1. APPLICABILITY (Instructions, Page 112)

Is the AIF of the CWIS identified above greater than, or equal to, 125 MGD?

☐ Yes ☐ No

- If **no** or the facility has selected **CCRS** [*40 CFR § 125.94(c)(1)*] for the impingement mortality compliance method, complete Item 2 and stop here.
- If **yes** and the facility is **seeking a waiver** from application requirements in accordance with *40 CFR § 125.95* for any CWIS(s) that withdraw from a man-made reservoir that is stocked and managed by a state or federal natural resources agency or the equivalent, complete item 2 and stop.
- If **yes** and the facility is **not seeking a waiver** from application requirements in accordance *with 40 CFR § 125.95*, complete item 2 and provide any required and completed studies listed in item 3. For any required studies in item 3 that are not complete, provide a detailed explanation for the delay and an anticipated schedule for completion and submittal.

2. EXISTING ENTRAINMENT PERFORMANCE STUDIES (Instructions, Page 112)

Attach any previously conducted studies or studies obtained from other facilities addressing technology efficacy, through-facility entrainment survival, and other entrainment studies.

Attachment: NA

3. FACILITY ENTRAINMENT PERFORMANCE STUDIES (Instructions, Page 112)

a. Attach an entrainment characterization study, as described at *40 CFR § 122.21(r)(9)*.

Attachment: NA

b. Attach a comprehensive feasibility study, as described as *40 CFR § 122.21(r)(10)*.

Attachment:

c. Attach a benefits valuation study, as described as *40 CFR § 122.21(r)(11)*.

Attachment:

d. Attach a non-water quality environmental and other impacts study, as described as *40 CFR § 122.21(r)(12)*.

Attachment:

e. Attach a peer review analysis, as described as *40 CFR § 122.21(r)(13)*.

Attachment:

WORKSHEET 12.0
OIL AND GAS EXPLORATION, DEVELOPMENT, AND PRODUCTION WASTEWATER DISCHARGES

This worksheet **is required** for all TPDES permit applications that are subject to Effluent Limitation Guidelines in 40 CFR Part 435.

1. OPERATIONAL INFORMATION (Instructions, Page 113)

a. Is the wastewater from an oil and gas exploration, development, or production facility located west of the 98th meridian?

☐ Yes ☒ No

If yes, continue to the next question. If no, skip to Item 2 relating to Production/Process Data.

b. Provide justification for how the wastewater is/will be used for agriculture or wildlife propagation.

NA

2. PRODUCTION/PROCESS DATA (Instructions, Page 113)

a. Provide the applicable 40 CFR Part 435 Subpart(s).

NA, Permit renewal only

b. Describe if the permit being sought is for discharges from exploration, development, production, or for a combination of more than one of those activities.

NA, Permit renewal only

c. Provide information on all waste-streams generated and specify which waste-streams you are requesting to be authorized for discharge.

Wastestreams Generated

Wastestream	Requesting authorization to discharge? (Yes/No)	Volume (MGD)	% of Total Flow
NA			

Attachment:

d. Describe how the facility will manage wastestreams for which discharge authorization is not being sought.

NA

Attachment:

e. Provide information on miscellaneous discharges.

NA

Attachment:

f. List of chemicals that are in use, or will be used, downhole. Provide the category, concentration used/to be used, and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Chemicals List NA

Category	Chemical Name	Concentration (specify units)	Purpose
NA			

Attachment:

g. List of chemicals that are in use, or will be used, to treat the wastewater to be discharged under this authorization. Provide the concentration used/to be used and purpose of using the chemical. Attach a safety data sheet for each chemical listed.

Wastewater Treatment Chemicals List

Chemical Name	Concentration (specify units)	Purpose
Enviro Flock Polymer	Get from calculation	Flocking agent at clarifier
Sodium hypochlorite	Dilution from 12.5%	Keep E. Coli under control

Attachment: 6

3. LABORATORY ACCREDITATION CERTIFICATION (Instructions, Page 114)

Effective July 1, 2008, all laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification* with the following general exemptions:

a. The laboratory is an in-house laboratory and is:
   i. periodically inspected by the TCEQ; or
   ii. located in another state and is accredited or inspected by that state; or
   iii. performing work for another company with a unit located in the same site; or
   iv. performing pro bono work for a governmental agency or charitable organization.

b. The laboratory is accredited under federal law.

c. The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

d. The laboratory supplies data for which the TCEQ does not offer accreditation.

Review *30 TAC Chapter 25* for specific requirements. The following certification statement shall be signed and submitted with every application. See Instructions, Page 32, for a list of approved signatories.

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

(Signature)

4. POLLUTANT ANALYSIS (Instructions, Page 114)

Tables 1, 2, 6, and 7 located in Worksheet 2.0 are required. In addition, Table 19 below is required and must be completed for each outfall and submitted with this application. The remaining tables in Worksheet 2.0, are required as applicable.

Table 19 for Outfall No.: 001

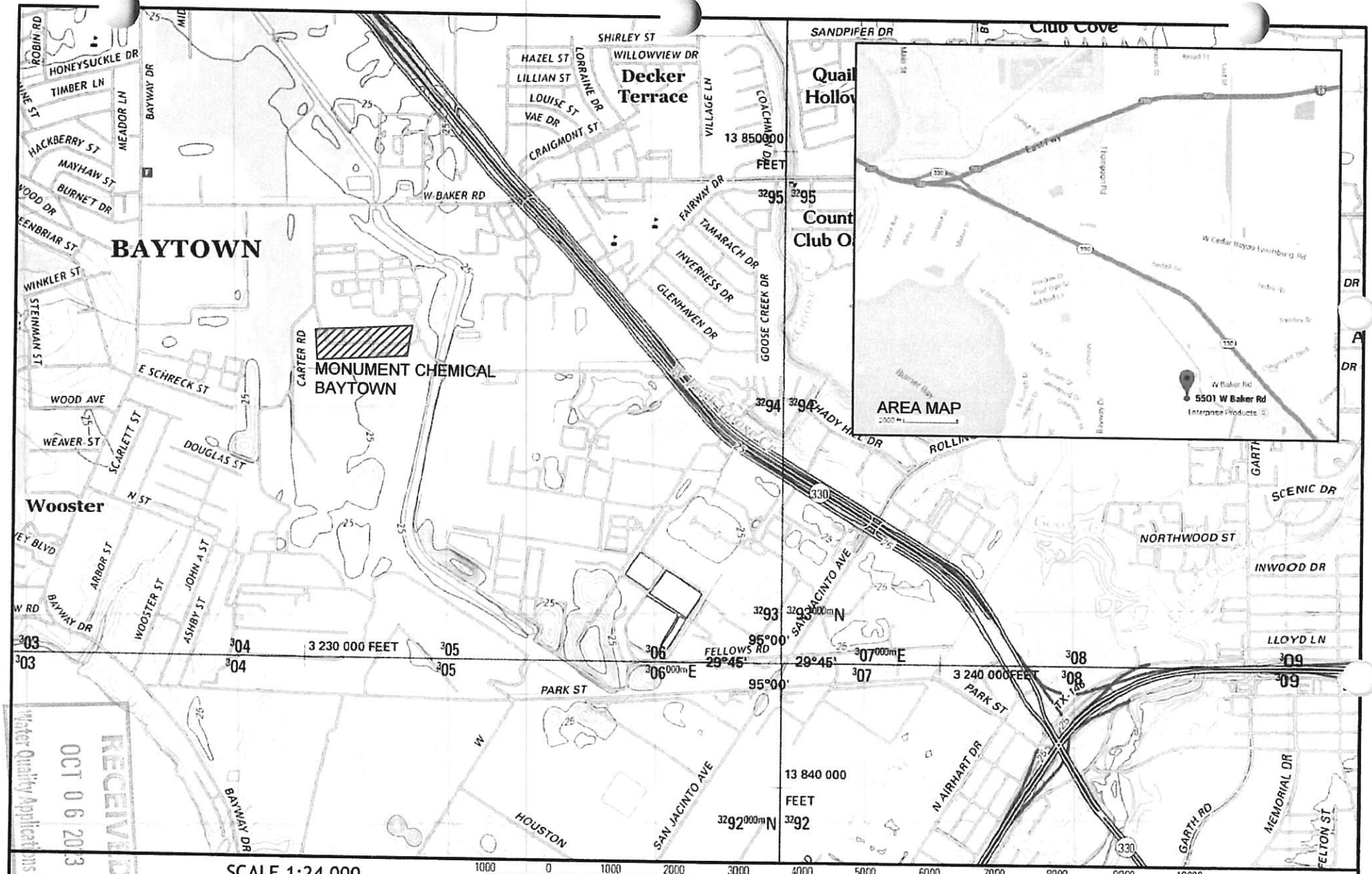
Samples are (check one): ☐ **Composites** ☒ **Grabs**

Pollutant	Sample 1 (mg/L)*	Sample 2 (mg/L)*	Sample 3 (mg/L)*	Sample 4 (mg/L)*
Calcium	78.7	82.6	77.5	66.7
Potassium	96	13.4	11.8	11.2
Sodium	175	177	155	165

* Indicate units if different from mg/L.

Attachment 1: Original USGS Map

Attachment 2: Separate USGS Map



SCALE 1:24 000

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

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COMPOSITE OF FOUR ADJOINING QUADRANGLES:
HIGH ISLAND, TX 2013
MORGANS POINT, TX 2013
LA PORTE, TX 2013
MOSS BLUFF, TX 2013

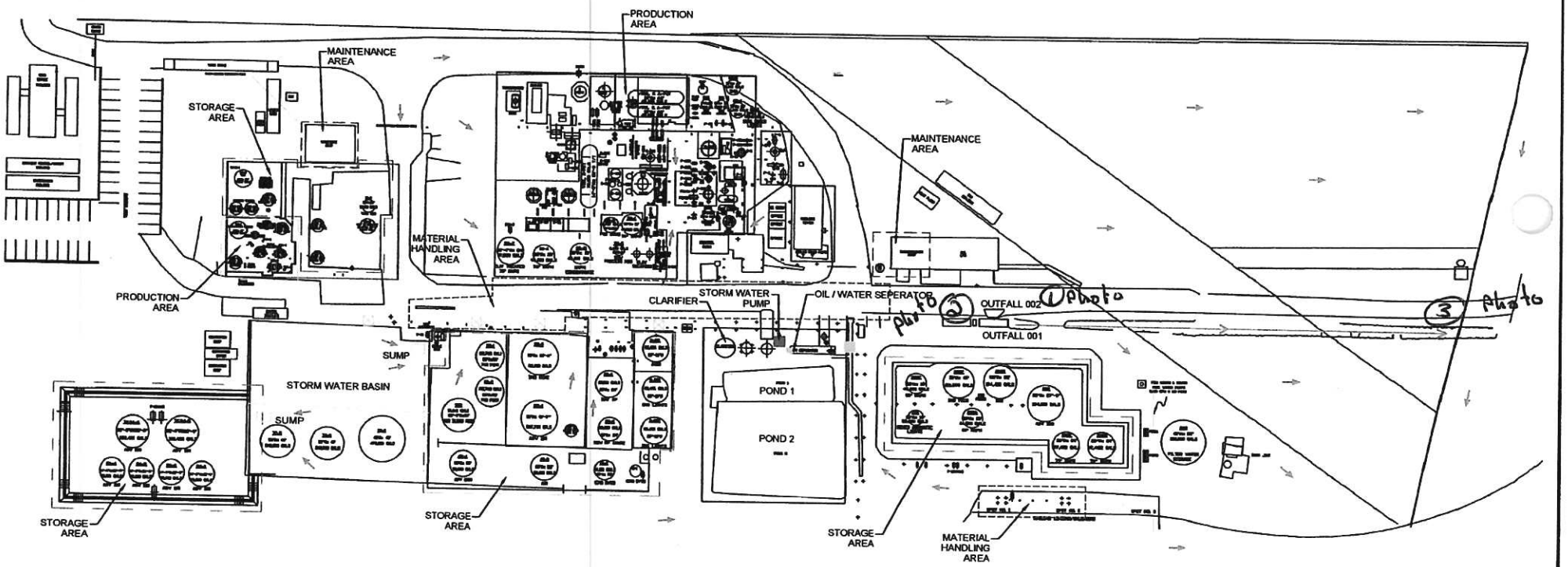
DOCUMENT TITLE:

Attachment 2 Facility Location
Monument Chemical Baytown
5501 Baker Drive
Baytown, Texas 77
025

GREEN ENVIRONMENTAL CONSULTING, INC.

DRAWING NUMBER:		DATE:
ADV002_A1_A6_USGS_021215		02/12/15
DRAWN BY: DHM	REVISION #:	REVISION DATE:

Attachment 3: Facility Map



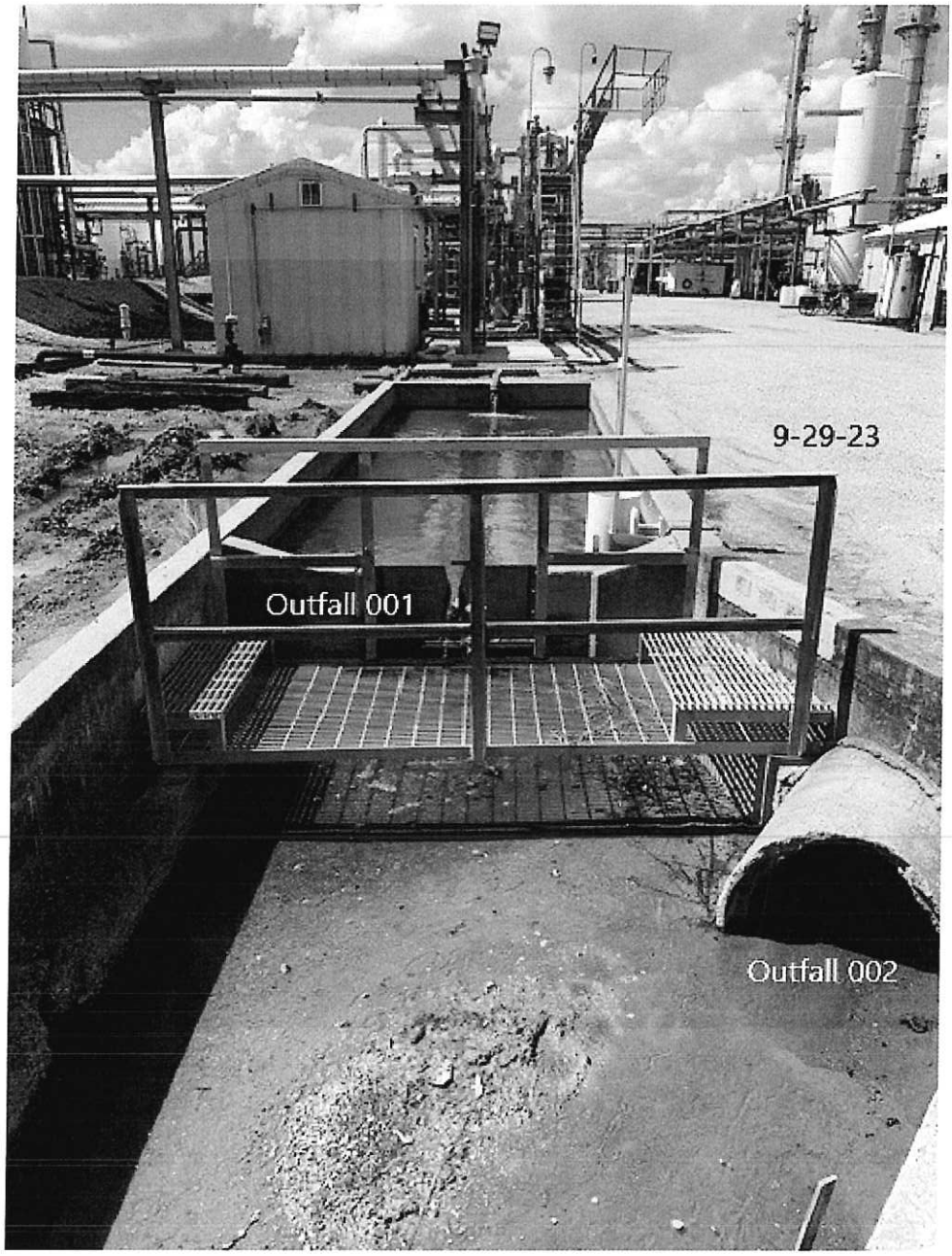
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Attachment 3
Facility Map
Monument Chemical, Baytown
5501 Baker Drive
Baytown, Texas 77025

GREEN ENVIRONMENTAL CONSULTING, INC.

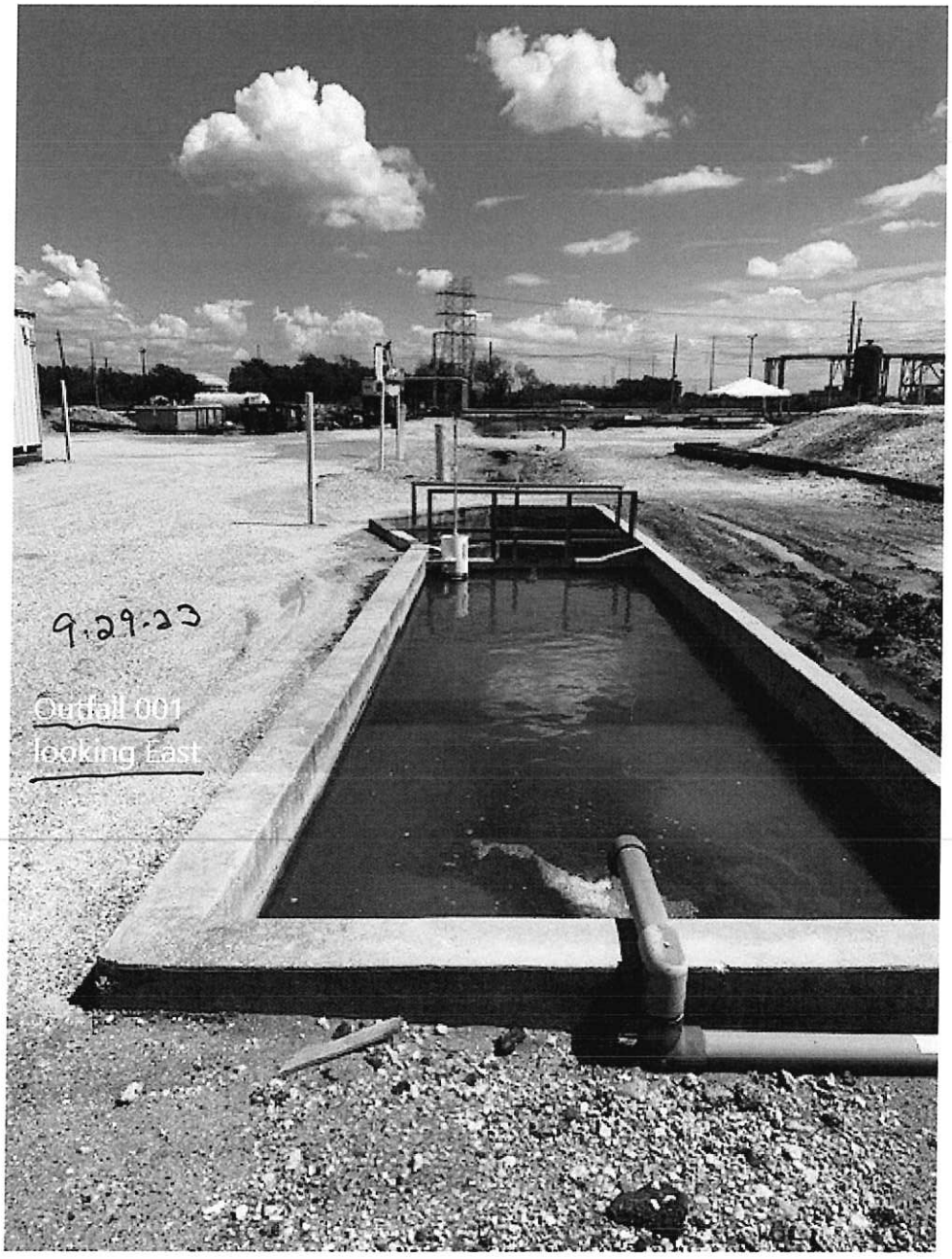
DRAWING NUMBER	SIZE
ADV002_A7_Facility-Map_010718	01/07/18
DRAWN BY: DHM	REVISION #:
	REVISION DATE:

Photo #1



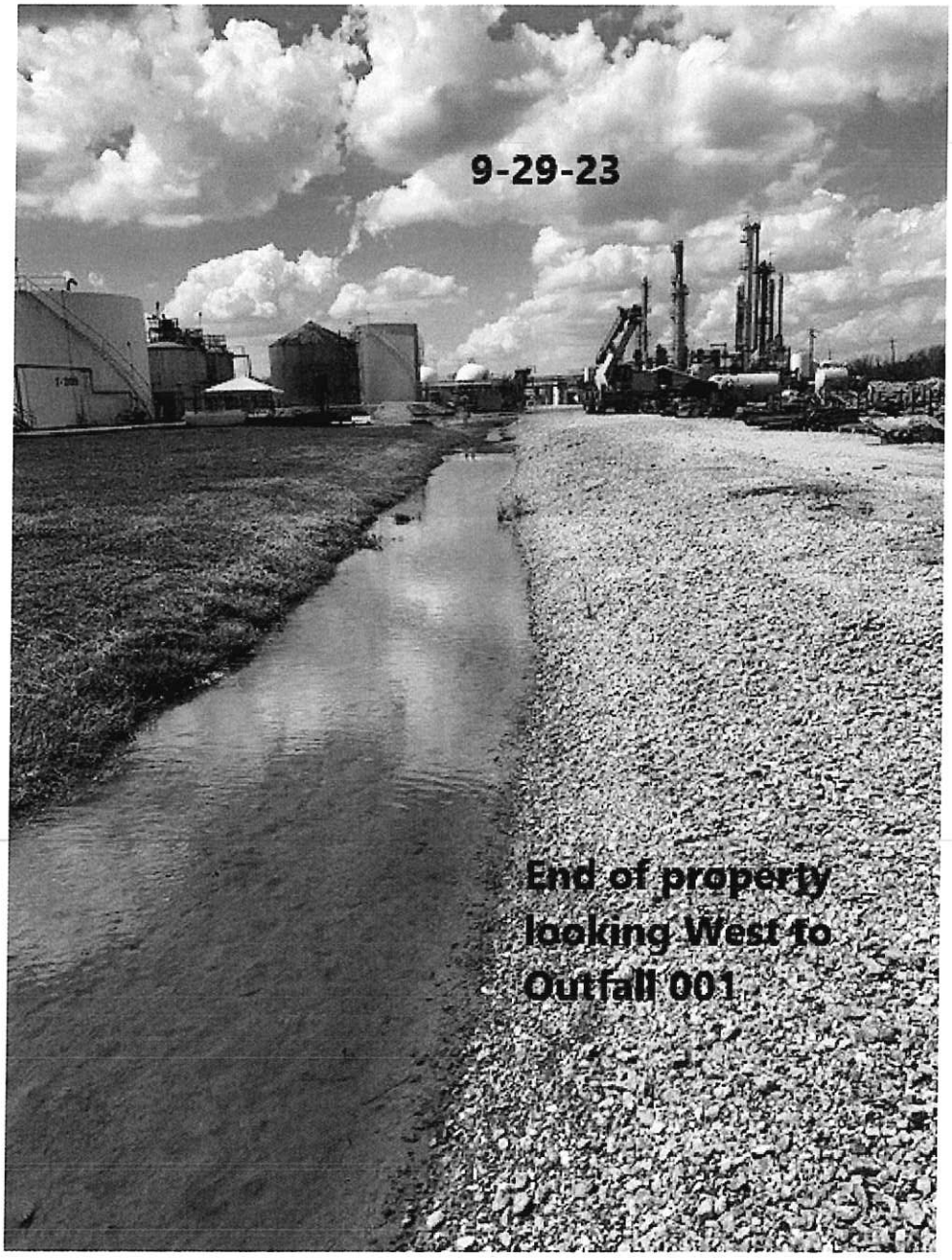
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Outfall 001 Looking EAST
Photo #2



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Photo #3



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Attachment 4: Revised Landowners' Map, Cross-Reference List, and Mailing Labels

EXXON MOBIL
CORPORATION
PO BOX 53
HOUSTON, TX 77001-0053

AIR PRODUCTS LP
7201 HAMILTON BLVD
ALLENTOWN, PA 18195-9642

TX EASTERN PRODUCTS PPL
ATTN AD VALORUM TAX
PO BOX 4018
HOUSTON, TX 77210-4018

GOLD FINANCIAL SVC INC
1302 WAUGH DRIVE SUITE 250
HOUSTON, TX 77019-3908

MIK RICHARD
311 MALONE STREET
HOUSTON, TX 77007-7150

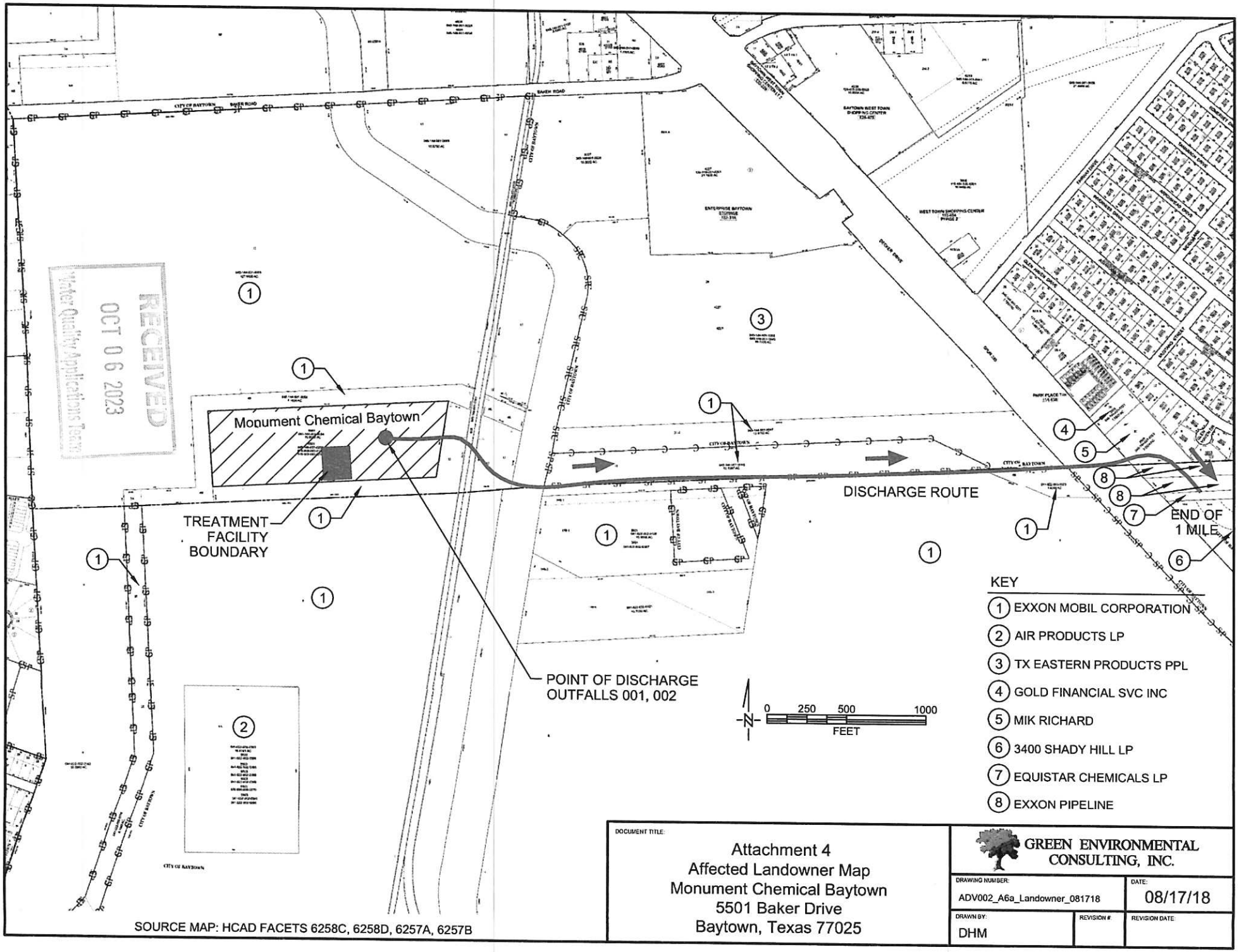
3400 SHADY HILL LP
5214 68TH STREET SUITE 401
LUBBOCK, TX 79424-1523

EXXON PIPELINE
PO BOX 53
HOUSTON, TX 77001-0053

EQUISTAR CHEMICALS LP
PO BOX 3646
HOUSTON, TX 77253-3646

Attachment 6: Affected Landowners' Cross Reference

Key on Map	HCAD Property ID	Property Address	Property Owner Name	Property Owner Mailin City	State	Zip	Description of Property Location
0	_0451440010064	5501 Baker Road	Advanced Aromatics LLC				subject
0	_0451440010206	5501 Baker Road	Advanced Aromatics LLC				subject
0	_9700000000160	5501 Baker Road	Advanced Aromatics LLC				subject
0	_9700000000262	5501 Baker Road	Advanced Aromatics LLC				subject
1	_0410220020383	5503 Baker Road	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 16.41 AC rectangular area south of subject
1	_0451440010045	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 12.13 AC downstream on line of flow
1	_0451440010065	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 127.98 AC north of subject
1	_0410220020140	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 33.59 AC west and south of subject
1	_0410220020220	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 857.66 AC south of subject
1	_0410220020221	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 874.07 AC south of subject
1	_9700000000124	2800 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 171.53 AC south of subject
1	_0410220020128	3601 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 15.95 AC downstream south
1	_0410220020387	3601 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 15.95 AC downstream south
1	_0451440010056	0 West Baker Road	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 7.16 AC linear area bordering subject to north and west
1	_0410220020118	0 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 8.19 AC linear area south and west of subject
1	_0451440010047	0 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 12.47 AC downstream on line of flow
1	_0410220000023	0 Decker Drive	Exxon Mobil	PO Box 53	Houston	TX	77001-0053 1.42 AC downstream on line of flow
8	_0410220000105	0 Decker Drive	Exxon Pipeline	PO Box 53	Houston	TX	77001-0053 138,956 SF downstream on line of flow
8	_0410220020033	0 Decker Drive	Exxon Pipeline	PO Box 53	Houston	TX	77001-0053 732,244 SF downstream on line of flow
2	_0410220020390	5503 Baker Road	Air Products LP	7201 Hamilton Blvd	Allentown	PA	18195-9642 16.41 AC rectangular area south of subject
2	_9700000000270	5503 Baker Road	Air Products LP	7201 Hamilton Blvd	Allentown	PA	18195-9642 16.41 AC rectangular area south of subject
2	_0410220020395	5503 Baker Road	Air Products LP, Roland J Nic	7202 Hamilton Blvd	Allentown	PA	18195-9643 16.41 AC rectangular area south of subject
3	_0451440010205	4227 Decker Drive	TX Eastern Products PPL	Attn Ad Valorum Tax PO Box 4018	Houston	TX	77210-4018 59.72 AC downstream north
3	_0451440010049	4227 Decker Drive	TX Eastern Products PPL	Attn Ad Valorum Tax PO Box 4018	Houston	TX	77210-4018 59.72 AC downstream north
4	_0451440010121	3600 Decker Drive No. 3	Gold Financial SVC INC	1302 Waugh Drive Suit	Houston	TX	77019-3908 1.35 AC downstream north
5	_0451440010023	3500 Decker Drive No. 3	Mik Richard	311 Malone Street	Houston	TX	77007-7150 2.05 AC downstream north
6	_1030400000002	3400 Shady Hill Drive No	3400 Shady Hill LP	5214 68th Street Suite	Lubbock	TX	79424-1523 9.59 AC downstream on line of flow
7	_0410220000019	0 Decker Drive	Equistar Chemicals LP	P.O Box 3646	Houston	TX	77253-3646 119,223 SF downstream on line of flow


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Monument Chemical Baytown
TREATMENT FACILITY BOUNDARY
DISCHARGE ROUTE
END OF 1 MILE
POINT OF DISCHARGE OUTFALLS 001, 002
0 250 500 1000
FEET
KEY
1 EXXON MOBIL CORPORATION
2 AIR PRODUCTS LP
3 TX EASTERN PRODUCTS PPL
4 GOLD FINANCIAL SVC INC
5 MIK RICHARD
6 3400 SHADY HILL LP
7 EQUISTAR CHEMICALS LP
8 EXXON PIPELINE
SOURCE MAP: HCAD FACETS 6258C, 6258D, 6257A, 6257B
DOCUMENT TITLE:
Attachment 4
Affected Landowner Map
Monument Chemical Baytown
5501 Baker Drive
Baytown, Texas 77025
GREEN ENVIRONMENTAL CONSULTING, INC.
DRAWING NUMBER: ADV002_A6a_Landowner_081718
DATE: 08/17/18
DRAWN BY: DHM
REVISION #:
REVISION DATE:

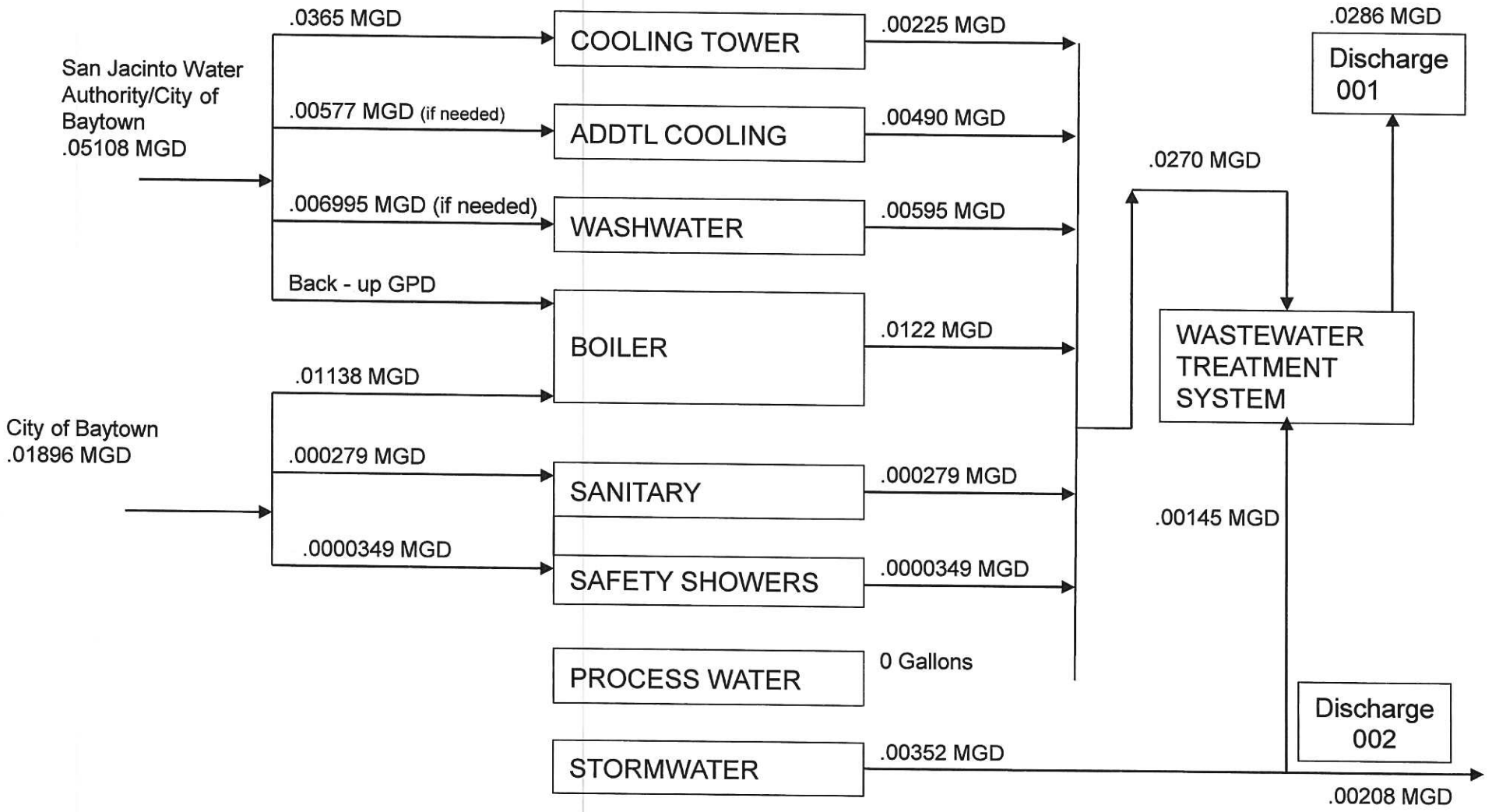
Attachment 5: Water Balance and Process flow Schematic

Monument Chemical Baytown
Water Balance and Process Flow 2022

SJRA = 18,645,400 Gal / yr.

City of Baytown = 6,920,000 gal / yr.

Daily Average Evaporation
.0578 MGD



Attachment 6: SDS's, Chain of Custody's, and E.Coli Excursion letter from 2021

Permit Renewal weeks 1 through 4

The following analyses were performed by:
Monument Chemical Baytown
5501 W. Baker Rd
Baytown, TX 77520

- Table 1: Outfall 001 for Residual Chlorine, pH, Temp, flow, and Dissolved Oxygen
  Week 1: Grab on 6-21-23 at 0745 hrs. and tested at 0750 hrs.
  Week 2: Grab on 6-26-23 at 1400 hrs. and tested at 1410 hrs.
  Week 3: Grab on 7-5-23 at 1330 hrs. and tested at 1340 hrs.
  Week 4: Grab on 7-10-23 at 1400 hrs. and tested at 1410 hrs.

All other analysis was run by the following laboratory:

A & B Labs
10100 East Freeway, Suite 100
Houston, TX 77029

Please see attached "Chain of Custody's" for dates and times on all tables.

Sincerely,
Philip Sprague
Phil Sprague
QA/QC – Environmental Supervisor

Monument Chemical

5501 West Baker Road • Baytown, Texas 77520
PHONE: 281/424-4505 • FAX: 281/424-3532

March 5, 2021

TCEQ
Region 12
5425 Polk Avenue, Suite H
Houston, TX 77023-1486

RE: TPDES Permit Number WQ01914
EPA ID Number TX0059285.

This is a letter of non-compliance for our permitted Outfall 001. On March 1st, 2021 during the review of our outfall analysis it was noted that on February 23rd, 2021 the E. Coli analysis exceeded our permit limit by greater than 40% on a single grab. The facility will continue to track and trend E. Coli results.

The single grab sample taken for E. Coli showed results as 740 mpn which exceeds our permit limit of 394 mpn on a single grab. It also exceeds our monthly average of 126 mpn by greater than 40%. We started a four consecutive week sample campaign on March 2nd, 2021.

The investigation found that the chlorine level at the time of the grab sample was 1.21 mg/l and the water temperature was 54°F. Outfall 001 flow was 4 inches which has a calculated retention time of 170 minutes. Retention time calculation – 170 min x 1.21 mg/l (Cl) = 205 (N $\geq$20). The calculation shows the N number to exceed the minimum number of 20 for chlorine retention time. This is the set number to assist in ensuring chlorination has enough time for disinfection.

The sample results for the February 24th, 2021 grab sample showed the following. Chlorine was 1.45 mg/l, and Outfall 001 flow was 4 inches which has a calculated retention time of 170 minutes. The temperature was 58°F. Retention time calculation – 170 min X 1.45 mg/l (Cl) = 246 (N $\geq$20). E. Coli results were 180 mpn.

Please find attached TCEQ – 00501, Water Quality Noncompliance Notification form regarding the notification, along with analysis and chain of custody.

If you should have any questions or need additional information, please contact Narayan Dave or Philip Sprague at (281) 424-4505 in the event you need any further information.

Sincerely,

K. Griffith

Kurt Griffith
Site Manager
Monument Chemical Baytown

Monument Chemical

5501 West Baker Road • Baytown, Texas 77520
PHONE: 281/424-4505 • FAX: 281/424-3532

Copy:
TCEQ/Enforcement Division
K. Payne
P. Sprague
Document Control

Certified #: R12WQ@TCEQ.TEXAS.GOV
EMAIL Receipt Confirmation.

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 9505513714881064607619

Remove X

Your item was delivered at 5:25 pm on March 8, 2021 in AUSTIN, TX 78711.

USPS Tracking Plus™ Available ∨

Delivered

March 8, 2021 at 5:25 pm
Delivered
AUSTIN, TX 78711

Get Updates ∨

Feedback

Text & Email Updates ∨

Tracking History ∨

USPS Tracking Plus™ ∨

Product Information ∨

See Less ∧

Can't find what you're looking for?

10100 East Freeway

Job ID:23062049
08/21/2023 Monument Chemical Bayt ANA

1. REPORT TO:	2. INVOICE TO:	3. PO # /
Monument Chemical Baytown		4. Turnaround Time- Business Days
5501 Baker Rd		☐ 1 Day * ☐ 5 Days *
Baytown, TX 77520		☐ 2 Days * ☑ 7 Days-Standard
Contact: Philip Sprague		☐ 3 Days * ☐ Other _____
Phone: 281-424-4505		* Surcharge Applies
Fax: 281-424-3532		***Day Zero is the day sample is received. Report due at 5pm on due day.***
psprague@monumentchemical.com		

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co — Sampler's Signature & Date
Monument Chemical Baytown/

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	13. Total No. of Containers	BOD, CBOD, TDS, HexCr_Low, Alkalinity,TSS	Low Level Mercury Grab	Metals 200.8, TriCr_Low Grab	O&G_HEM	Ammonia, TOC, TON, TKN, Phosphorus, COD, NO3+NO2	VOC 624.1 - Benzene	SVOC 625.1 - 2,3,4-Methylphenol	***Anions 300.0	Cyanide_Amenalbe_UltraLow N22D LOWEST MDL	Sulfide	E. coli	*Field Tests - Ph, Temp, DO,Chlorine	Number of Containers
									3 P	3 VOA	1 P	2 G	1 P	3 VOA	2 AG	1 P	1 P	1 P	1 P		14. Containers*
									C	H	N	S	S	H,C	C	C	OH,A	OH,X			15. Preservatives**
																					16. pH-Lab Only
Outfall 001 - Composite	DIAC	6-20-23	0500 0800	X		X		9	X	X	X		X			X					*Metals 200.8 - Al,Sb,As,Ba,Be,Cd,Cr, Cu,Pb,Ni,Se,Ag,Tl,Zn ***Anions: Chloride, Fluoride, Nitrate,Sulfate
Outfall 001 - Grab	~~CIAM~~ ~~OHAA~~	6-21-23	0730		X	X		9		X	X	X		X	X		X	X			18. Comments
Outfall 001 - Field Tests	03	6-21-23	0745		X	X		0												*	Flow 3" = 10.16 GPM
outfall 001	04A	6-21-23	0945		X	X		1											X		pH 7.81
																					Temp 27.9 C
																					Chlorine 0.87
																					DO 6.71
				Line One				5	Samples For 24HC												
				Line Two				14	Samples For Grabs												

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS/COMMENTS
1) Philip Sprague	62123	1024	1)	6/21/23	1024	WEEK 1 OF 4
2)			2)			One a week for 4 weeks.
3)			3)			

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **P/O**- Plastic/other ____ 4 oz/8 oz- glass wide mouth

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other: ZnA **A**: NaAsO2

Temperature: 3.2
Intact? ☑ Y ☐ N
Initials TK

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

A&B LABS
10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:
Monument Chemical Baytown
5501 Baker Rd
Baytown, TX 77520
Contact: Philip Sprague
Phone: 281-424-4505
Fax: 281-424-3532
psprague@monumentchemical.com

2. INVOICE TO:

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matri Water	12. Matri Soil	13. Total No. of Containers	BOD, CBOD, TDS, HexCr_Low, Alkalinity,TSS	Low Level Mercury	Metals 200.8, TriCr_Low	O&G_HEM	Ammonia, TOC, TON, TKN, Phosphorus, COD, NO3+NO2	VOC 624.1 - Benzene	SVOC 625.1 - 2,3,4-Methylphenol	***Anions 300.0	Cyanide_Amenalbe_UltraLow Low Detect 0.1	Sulfide	E. Coli	*Field Tests - Ph, Temp, DO,Chlorine
								Number of Containers	3	3	1	2	1	3	2	1	1	1		
								14. Containers*	P	VOA	P	G	P	VOA	AG	P	P	P		
								15. Preservatives**	C	H	N	S	S	H,C	C	C	OH,A	OH,X	TH.O	
								16. pH-Lab Only												
Outfall 001 - Composite		6-26-23 6-27-23	0800 0800	X		X		5 9	X	X	X		X			X				
Outfall 001 - Grab		6-26-23	1400		X	X		9		X	X	X		X	X		X	X		
Outfall 001 - Field Tests		6-26-23	1400		X	X		0												*
001 Grab		6-27-23	0855		X	X		1											X	
Lists 2 Has 13 Samples																				

*Metals 200.8 - Al,Sb,As,Ba,Be,Cd,Cr, Cu,Pb,Ni,Se,Ag,Tl,Zn
***Anions: Chloride, Fluoride, Nitrate,Sulfate

18. Comments
Flow 10.10 GPM
pH 8.50
Temp 89
Chlorine 0.90
DO 6.1

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1) Phil Sprague	6-27-23	8:57	1)	6-27-23	8:57
2)			2)		
3)			3)		

KNOWN HAZARDS/COMMENTS
WEEK 2 OF 4
One a week for 4 weeks.

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter
4 oz/8 oz- glass wide mouth **P/O**- Plastic/other ____

Preservatives: **C-Cool **H**- HCl **N**- HNO3
S-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other: ZnA **A**: NaAsO2

Temperature: ____
Intact? ☐ Y ☐ N
Initials _____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

A&B LABS
10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

1. REPORT TO:
Monument Chemical Baytown
5501 Baker Rd
Baytown, TX 77520
Contact: Philip Sprague
Phone: 281-424-4505
Fax: 281-424-3532
psprague@monumentchemical.com

2. INVOICE TO:

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	13. Total No. of Containers	BOD, CBOD, TDS, HexCr_Low, Alkalinity,TSS	Low Level Mercury	Metals 200.8, TriCr_Low	O&G_HEM	Ammonia, TOC, TON, TKN, Phosphorus, COD, NO3+NO2	VOC 624.1 - Benzene	SVOC 625.1 - 2,3,4-Methylphenol	***Anions 300.0	Cyanide_Amenalbe_UltraLow (Lowest Limit)	Sulfide	E.Coli	*Field Tests - Ph, Temp, DO,Chlorine	
								Number of Containers	3 P	3 VOA	1 P	2 G	1 P	3 VOA	2 AG	1 P	1 P	1 P	1 P	1 P	
								14. Containers*													
								15. Preservatives**	C	H	N	S	S	H,C	C	C	OH,A	OH,X	H2O		
								16. pH-Lab Only													
Outfall 001 - Composite		7-5-23 7-6-23	0800 0800	X		X		5 9	X	X	X		X			X					
Outfall 001 - Grab		7-5-23	1330		X	X		9		X	X	X		X	X		X	X			
Outfall 001 - Field Tests		7-5-23	1330		X	X		0												*	
001 Grab@1500hrs		7-6-23	~~0830~~		X	X		1											X		
001 Grab		7-5-23	1330		X	X		1	HexCr												
Line ONE = 5 samples																					
Line TWO = 13 samples																					

18. Comments
Flow 3/2- 14.71 GPM
pH 8.44
Temp 87
Chlorine 0.75
DO 7.40

***Metals 200.8 -** Al,Sb,As,Ba,Be,Cd,Cr, Cu,Pb,Ni,Se,Ag,Tl,Zn
*****Anions**: Chloride, Fluoride, Nitrate,Sulfate

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1)	7.6.23	1505	1)	7.7.23	1505
2)			2)		
3)			3)		

KNOWN HAZARDS/COMMENTS
Week 3 of 4
One a week for 4 weeks.

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **4 oz/8 oz**- glass wide mouth **P/O**- Plastic/other ____

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other: ZnA **A**: NaAsO2

Temperature: ____
Intact? ☐ Y ☐ N
Initials ____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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www.ablabs.com

1. REPORT TO:
Monument Chemical Baytown
5501 Baker Rd
Baytown, TX 77520
Contact: Philip Sprague
Phone: 281-424-4505
Fax: 281-424-3532
psprague@monumentchemical.com

2. INVOICE TO:
Arkema

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	13. Total No. of Containers	VOC 624.1 - Benzene	SVOC 625.1 - 2,3,4-Methylphenol	NO3+NO2	1 P	2 G										Number of Containers
								3 VOA	2 AG	1 P	1	2											14. Containers*
								H,C	C	S	S	S											15. Preservatives**
																							16. pH-Lab Only
											COC	O&G											
Outfall 002 - Grab		6.23.23	2130		X	X		6	X	X	X												18. Comments
002 Grab		6.23.23	2130		X	X		1				X											
002 Grab		6.23.23	2130		X	X		2					X										

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS/COMMENTS
1) Philip Sprague	6.27.23	8:57	1)	6.27.23	8:57	One a week for 4 weeks.
2)			2)			
3)			3)			

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **4 oz/8 oz**- glass wide mouth **P/O**- Plastic/other _____

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other: ZnA **A**: NaAsO2

Temperature: _____
Intact? ☐ Y ☐ N
Initials _____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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Contact: Philip Sprague
Phone: 281-424-4505
Fax: 281-424-3532
psprague@monumentchemical.com

2. INVOICE TO:

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix Water	12. Matrix Soil	13. Total No. of Containers	BOD, CBOD, TDS, HexCr_Low, Alkalinity,TSS	Low Level Mercury	Metals 200.8, TriCr_Low	O&G_HEM	Ammonia, TOC, TON, TKN, Phosphorus, COD, NO3+NO2	VOC 624.1 - Benzene	SVOC 625.1 - 2,3,4-Methylphenol	***Anions 300.0	Cyanide_Amenalbe_UltraLow	Sulfide	E. Coli	*Field Tests - Ph, Temp, DO,Chlorine
								Number of Containers	3	3	1	2	1	3	2	1	1	1	1	
								14. Containers*	P	VOA	P	G	P	VOA	AG	P	P	P	Tbl.	
								15. Preservatives**	C	H	N	S	S	H,C	C	C	OH,A	OH,X		
								16. pH-Lab Only												
Outfall 001 - Composite		7-10-11-23	0800 0800	X		X		9	X	X	X		X			X				
Outfall 001 - Grab		7-10-23	1400		X	X		9				X		X	X		X	X		
Outfall 001 - Field Tests		7-10-23	1400		X	X		0												*
001 Grab		7-11-23	1210		X	X		1											X	
001 Grab		7-11-23	0730		X	X		1	HExCr											

Line 1 = 5 Sample
Line 2 = 13 Samples

18. Comments
Flow 3½" 14.71 GPM
pH 8.10
Temp 89 F
Chlorine 0.65
DO 6.2

*Metals 200.8 - Al,Sb,As,Ba,Be,Cd,Cr, Cu,Pb,Ni,Se,Ag,Tl,Zn
***Anions: Chloride, Fluoride, Nitrate,Sulfate

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME
1) Ph.P Sprague	7-11-23	1213	1)	7.11.23	1213
2)			2)		
3)			3)		

KNOWN HAZARDS/COMMENTS

One a week for 4 weeks.

* Containers: **VOA**- 40 ml vial **A/G**- Amber/Glass 1 Liter **P/O**- Plastic/other _____
4 oz/8 oz- glass wide mouth

Preservatives: **C-Cool **H**- HCl **N**- HNO3 **S**-H2SO4 **OH**- NaOH **T**-Na2S2O3 **X**- Other: ZnA **A**: NaAsO2

Temperature: _____
Intact? ☐ Y ☐ N
Initials _____

BILL OF LADING/TRACKING #

METHOD OF SHIPMENT

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Contact: Philip Sprague
Phone: 281-424-4505
Fax: 281-424-3532
psprague@monumentchemical.com

2. INVOICE TO:
Arkema

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other ____
* Surcharge Applies
5-DAY
Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID
5. Project #
6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

| 9. Sample ID & Description | Lab Use Only | 10. Sampling Date | 10. Sampling Time | 11. comp | 11. grab | 12. Matrix Water | 12. Matrix Soil | 13. Total No. of Containers | VOC 624.1 - Benzene | SVOC 625.1 - 2,3,4-Methylphenol | NO3+NO2 | | |

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Contact: Philip Sprague
Phone: 281-424-4505
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psprague@monumentchemical.com

2. INVOICE TO:
Arkema

3. PO # /

4. Turnaround Time- Business Days
☐ 1 Day *
☐ 2 Days *
☐ 3 Days *
☐ 5 Days *
☑ 7 Days-Standard
☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

| 9. Sample ID & Description | Lab Use Only | 10. Sampling Date | 10. Sampling Time | 11. comp | 11. grab | 12. Matri Water | 12. Matri Soil | 13. Total No. of Containers | VOC 624.1 - Benzene | SVOC 625.1 - 2,3,4-Methylphenol | NO3+NO2 | | |

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☐ 1 Day * ☐ 5 Days *
☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

Day Zero is the day sample is received. Report due at 5pm on due day.

A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co — Sampler's Signature & Date
Monument Chemical Baytown/

| 9. Sample ID & Description | Lab Use Only | 10. Sampling Date | 10. Sampling Time | 11. comp | 11. grab | 12. Matrix Water | 12. Matrix Soil | 13. Total No. of Containers | TSS | COD,TOC,Phosphorus, NO3+NO2 | O&G_HEM | Metals 200.8, Metals 200.7,TriCr_low | HexCr_low | Low Level Mercury | X=Phenols Total | | |

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☐ 2 Days * ☑ 7 Days-Standard
☐ 3 Days * ☐ Other _____
* Surcharge Applies

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A&B JOB ID

5. Project #

6. Project Name / Location

Permit Testing - Monument Chemical Baytown - 5501 Baker Rd. Baytown, TX 77520

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ MDL Rpt

8. Sampler's Name & Co **Sampler's Signature & Date**
Monument Chemical Baytown/

| 9. Sample ID & Description | Lab Use Only | 10. Sampling Date | 10. Sampling Time | 11. comp | 11. grab | 12. Matrix Water | 12. Matrix Soil | 13. Total No. of Containers | VOC 624.1 - Benzene | SVOC 625.1 - 2,3,4-Methylphenol | NO3+NO2 | | |

P/PM Services Inc.

SAFETY DATA SHEET

BAC-OFF

Section 1. Identification

GHS product identifier : BAC-OFF

Other means of identification : MECT-5-CT

Product type : Biocides

Relevant identified uses of the substance or mixture and uses advised against

See label and/or technical data sheet, if available.

Supplier's details : P/PM Services Inc
1009 Louisiana Ave
South Houston TX 77587
713-944-3680

Emergency telephone number (with hours of operation) : 24 Hour Emergency Phone (713) 944-3680

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 4
ACUTE TOXICITY (inhalation) - Category 2
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 3%

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Combustible liquid.
Fatal if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Wear protective gloves. Wear eye or face protection. Wear respiratory protection. Keep away from flames and hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Section 2. Hazards identification

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

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

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Biocides

Product code : BAC-OFF

Ingredient name	%	CAS number
Methylene bis(thiocyanate) 2-(Thiocyanomethylthio)benzothiazole	2.45 2.3133	6317-18-6 21564-17-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

Per Appendix D 1919.1200 OSHA, ranges can be used when there is batch-to-batch variability in a mixture or a trade secret claim.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact :
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

Inhalation :
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

Skin contact :
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Ingestion :
- Immediately call for a poison control center or doctor.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Contains Petroleum distillate.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Satisfactory Materials of Construction : 304 Stainless steel
316 Stainless steel
Aluminum 5052 H34
Polyethylene - crosslink
Polyethylene - high density
Polyethylene - low density
Polypropylene
Rehau Tubing
Neoprene
Silicone rubber
6/6 Nylon
Teflon
Pharmed Tubing
FRP
Norprene
Dow Sillastic Tube
NOTE: With respect to all other materials not listed above, user should be aware that use of such materials with this product may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such materials not listed above should be implied by the user.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Clear amber

Odor : Slight [Slight]

Odor threshold : Not available.

pH : Not available.

Section 9. Physical and chemical properties

Melting point	: <-30°C (<-22°F)
Boiling point	: >100°C (>212°F)
Flash point	: Closed cup: 70°C (158°F) [Tagliabue.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.03
Dispersibility properties	: Dispersible in the following materials: cold water and hot water.
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
VOC	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Contains 2-(thiocyanomethylthio)benzothiazole. Contains methylene bis(thiocyanate). Do not heat and/or store above 50°C as decomposition may increase packaging pressure.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Methylene bis(thiocyanate)	LC50 Inhalation Dusts and mists	Rat	7.7 mg/m³	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	55 mg/kg	-
	LD50 Oral	Rat	81.4 mg/kg	-
2-(Thiocyanomethylthio) benzothiazole	LC50 Inhalation Dusts and mists	Rat	0.067 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Mouse	445 mg/kg	-
	LD50 Oral	Rat	750 mg/kg	-

Conclusion/Summary : This product contains 2.5% of each active ingredient, TCMTB and MTC. The following data was developed from tests conducted with a formulation containing 10% of each of the active ingredients. Additional information is available in the Toxicity Profiles of the individual actives.

- Oral : LD_{50}/Rat = 250 mg/kg
- Dermal : LD_{50}/Rabbitt = 1670 mg/kg
- Dermal Sensitization: Guinea Pig: Strong Sensitizer
- Skin Irritation: Rabbits: Severely irritating, corrosive
- Eye Irritation: Rabbits: Corrosive

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methylene bis(thiocyanate)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
2-(Thiocyanomethylthio) benzothiazole	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
	Skin - Primary dermal irritation index (PDII)	Rabbit	7.4	-	-

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Methylene bis(thiocyanate)	skin	Guinea pig	Sensitizing
2-(Thiocyanomethylthio) benzothiazole	skin	Guinea pig	Sensitizing

Mutagenicity

Not available.

Carcinogenicity

This product has not been tested unless noted in summary results.

Conclusion/Summary : Mutagenicity testing and 52-week rat studies on the active ingredients show no evidence of carcinogenic effects.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Dermal, Inhalation.
Routes of entry not anticipated: Oral.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Fatal if inhaled.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Chronic feeding studies on the active ingredient did not reveal any significant adverse effects.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

Route	ATE value
Oral Inhalation (dusts and mists)	2162.5 mg/kg 0.2986 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
MECT-5-CT	Acute LC50 0.011 mg/l Acute LC50 0.23 mg/l	Daphnia Fish	48 hours 96 hours

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	2922	2922	2922
UN proper shipping name	CORROSIVE LIQUID, TOXIC, N.O.S. (2-(Thiocyanomethylthio) benzothiazole, Methylene bis (thiocyanate))	CORROSIVE LIQUID, TOXIC, N.O.S. (2-(Thiocyanomethylthio) benzothiazole, Methylene bis (thiocyanate)). Marine pollutant (2-(Thiocyanomethylthio) benzothiazole)	CORROSIVE LIQUID, TOXIC, N.O.S. (2-(Thiocyanomethylthio) benzothiazole, Methylene bis (thiocyanate))
Transport hazard class(es)	8 (6.1) 	8 (6.1) 	8 (6.1) 
Packing group	III	III	III
Environmental hazards	No.	Yes.	No.

Section 14. Transport information

Additional information	**Remarks** ERG Guide 154	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules (EmS)** F-A, S-B **IMDG Code Segregation group** 6 - Cyanides **Remarks** ERG Guide 154, HazMat Code 4936015	The environmentally hazardous substance mark may appear if required by other transportation regulations. **Remarks** ERG Guide 154, ERG Code 8P

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

Potential impurities present in trace quantities are included in the regulatory listings of this section.

U.S. Federal regulations : **United States inventory (TSCA 8b)**:This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from US Toxic Substances Control Act (TSCA) Inventory listing requirements.

Clean Water Act (CWA) 307: dimethylnitrosoamine; naphthalene

Clean Water Act (CWA) 311: naphthalene

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
N-nitrosodimethylamine	0.000000013272	Yes.	1000	118.7	10	1.2

SARA 304 RQ : 75344073781.7 lbs / 34206209496.9 kg [8773130634.9 gal / 33209912132.9 L]

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Methylene bis(thiocyanate)	2.45	No.	No.	No.	Yes.	Yes.
2-(Thiocyanomethylthio)benzothiazole	2.3133	No.	No.	No.	Yes.	Yes.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Diethylene glycol monomethyl ether	111-77-3	>86.522
Supplier notification	Diethylene glycol monomethyl ether	111-77-3	>86.522

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

CERCLA : CERCLA: Hazardous substances.: 2-ethoxyethanol; naphthalene; dimethylnitrosoamine: 10 lbs. (4.54 kg);

FDA : This product is allowed under the following FDA (21 CFR) sections :176.300.

EPA Reg. No. : 1448-171

FIFRA : This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

DANGER. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles or face shield. Wear coveralls over long-sleeved shirt and long pants; socks and chemical resistant footwear; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton; and respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C); or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G); or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter. In addition to the PPE listed above, mixers, loaders, and cleaners of equipment must also wear chemical-resistant apron. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

User Safety Requirements: Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendation: User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: This product is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: Do not expose to extreme temperatures.

State regulations

California Prop. 65

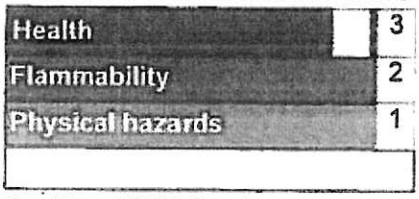
Section 15. Regulatory information

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.
WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive
2-methoxyethanol	No.	Yes.
2-ethoxyethanol	No.	Yes.
naphthalene	Yes.	No.
dimethylnitrosoamine	Yes.	No.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

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Date of previous issue	: No previous validation.
Version	: 0.01
Prepared by	: Buckman Regulatory Affairs

Section 16. Other information

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

▼ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Buckman Laboratories, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use outside of such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.
The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out or relating to this contract, or breach thereof, shall be settle by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

P/PM Services, Water Treating Division

1. Company Identification and Product Hazard Overview:

Product Name : BCASF-1; boiler trtmnt

Recommended Use :

Manufactured BY : **P/PM Services Water Treating Division**
1009 Louisiana Avenue
South Houston, TX 77587
Tel: 713-944-9881
Website: www.ppmserv.com

In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300

2. Hazard Identification:

GHS Classification:
Acute Toxicity, Oral (Category 4)
Acute Toxicity, Inhalation (Category 4)
Acute Toxicity, Dermal (Category 4)
Eye Irritation (Category 2B)

Signal Word: Warning
Pictogram:



Hazard Statements:

H303	: May be harmful if swallowed
H333	: May be harmful is inhaled
H312	: Harmful if in contact with skin
H320	: Causes eye irritation.

Precautionary Statements:

P301 + P330 + P331	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P304 + P340 + P310	: IF INHALED: Remove person to fresh air and keep in position comfortable for breathing
P303 + P352 +P363	: IF ON SKIN or hair: rinse skin with water/shower. Wash contaminated clothing before reuse
P305 + P351 + P338	: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P337 + P313	: If eye or skin irritation persists, get medical attention.
P312	: Call a POISON CENTER or doctor/physician if feeling unwell
P403 + P235	: Store in a well-ventilated place. Keep cool.
P273 + P405	: Avoid release to the environment. Store Locked Up.
P501	: Dispose of contents/container in accordance with local/state/federal regulations.

3. Composition/Information on Ingredient:

Chemical Name : BCASF-1

Chemical Family :

Chemical Formula/ Structure : N/A

Substance:	CAS Number:	Hazard	Compo. (%)
BCASF-1		See section 2	Proprietary - composition information is available to medical and emergency personnel upon request.

4. First Aid Measures:

Eyes : Flush skin with running water for at least fifteen minutes. Remove any contact lenses. If irritation persists, get medical aid.

Skin : Remove contaminated clothing. Flush skin with running water for fifteen minutes. If irritation persists, get medical aid.

Ingestion : If the product is swallowed, do not induce vomiting. Call doctor/physician/poison center immediately. Never give anything by mouth to an unconscious person.

Inhalation : If safe to do so, remove individual from further exposure. Keep warm and at rest. If cough or other symptoms develop, call doctor/poison center immediately.

PPE for first responders : Gloves and safety goggles are highly recommended.

5. Fire Fighting Measures:

Flash Point (°C) : Not applicable.

Flammable Limits : Not applicable.

Autoignition Temp. : Not applicable.

Flammable Class : Not applicable.

Flame Propagation or Burning Rate of Solids : Not available.

General Hazard : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.

Extinguishing Media : Water spray, chemical-type foam, dry chemical. Appropriate for the surrounding area.

Hazardous Combustion Products : Not applicable

Fire Fighting Procedures: This product is a non-flammable substance. This product is a water solution; only the dried residue could burn, which does not burn readily. Cool exposed containers with water spray to prevent over heating.

Fire Fighting Equipment: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of the firefighters. If possible, firefighters should control run-off water to prevent environmental contamination.

Sensitivity to Static Discharge : Not sensitive.

Sensitivity to Mechanical Impact : Not sensitive.

6. Accidental Release Measures:

Protective Gear for Personnel:

For Small Spill : Safety glasses or chemical splash goggles, chemically resistant gloves (rubber/latex), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin.

For Large Spill : Chemically resistant gloves (rubber/latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator (NIOSH approved). Self contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

Spill Clean-up Procedures:

For Small Spill : In the event of a small spill, if possible, vacuum up the material and use it as originally intended. If not, the leak should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Do not let chemical/spill waste enter the environment.

For Large Spill : In the event of a large spill, contain the spill immediately and dispose according to state, federal, and local hazardous waste regulation. Do not let chemic/spill waste enter the environment.

Environmental Precaution : Water spill: use appropriate containment to avoid run off or release to sewer or other waterways.
Land spill: use appropriate containment to avoid run off or release to ground.
General precaution: remove containers of strong acid and alkali from the release area.

Release Notes : If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

7. Handling and Storage:

Handling : Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas.

Storage : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. If stored properly, the shelf life is greater than one year. Material may freeze if exposed to temperatures below 0°C.

8. Exposure Controls and Personal Protection:

Engineering Controls : Use appropriate engineering controls to minimize exposure to vapors generated via routine use. Maintain adequate ventilation of workplace and storage areas. Local exhaust is adequate.

Personal Protective Equipment : **Eyes and face:** Wear safety glasses with side shields or goggles when handling this material. Eye wash facility should be available.
Skin: Avoid direct contact with skin. Wear chemically resistant gloves, apron, boots or whole bodysuit when handling this product.
Respiratory: Avoid breathing vapor or mist. Protection is not normally required.

Work Hygienic Practices : Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

Exposure Limits:

a - Not Required
b - Not Established
c - None

No.	Units	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
1		c	c	c	c
2		b	b	b	b
3		b	b	b	b
4		b	b	b	b
5	ppm	20	30	20	30

9. Chemical and Physical Properties:

Appearance	: Clear/Slightly Cloudy Liquid	**Decomposition Temp.**	: Not applicable
Odor	: Not available	**Evaporation Rate**	: Not available
Odor threshold	: Not available	**Flammability**	: Not applicable
Color	: Yellow/Light Brown	**Upper Explosive Limit**	: Not applicable
pH (neat)	: 10.0 - 11.0	**Vapor Pressure**	: 17mmHg @ 20°C (due to water)
Melting Point	: Below 0°C	**Vapor Density**	: >1
Freezing Point	: Not Available	**Specific Gravity**	: 1.2
Boiling Range	: Above 110°C	**Solubility**	: 100% in water
Flash Point	: Not applicable	**Percent Volatility**	: 80%
Viscosity	: roughly equivalent to water	**Evaporation Rate (BAC=1)**	: <<1

10. Stability and Reactivity:

Stability : The product is stable under normal ambient conditions of temperature and pressure.

Polymerization : Polymerization will not occur.

Hazardous Decomposition Products : None known

Incompatible Materials : None known

Conditions to Avoid : Avoid exposure to extreme temperatures.

11. Toxicological Information:

Acute Toxicity Data:

Oral LD_{50} : Rat > 1000 mg/kg
Dermal LD_{50} : Rabbit > 1000 mg/kg
Inhalation LD_{50} : No data available

Corrosion/Irritation:

Skin : No data available.
Eyes : No data available.

Sensitization:

Respiratory : No data available.
Skin : No data available.

Carcinogenicity : No data available.
Mutagenicity : No data available.
Reproductive Effects : No data available.
Teratogenic Effects : No data available.

Routes of Exposure : Eyes and Skin

Long Term Exposure Potential Health Effects:

Eyes : Irritation will occur. Prolonged contact can cause tissue damage, due to the high pH largely.
Skin : Irritation may occur in some people due to prolonged exposure and sensitive skin, due to high pH and the Morpholine.
Inhalation : Irritation of nose, throat, and lungs may occur; prolonged exposure can cause tissue damage. However, as a liquid with a boiling point above 212°F, this material is hard to inhale
Ingestion : BCASF-1 is not acutely toxic. Due to the bad taste, no one would normally drink it; however, if more than 1/2 ounce is ingested, consult a physician immediately. Vomiting, nausea, and stomach pain may occur.

12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

Biodegradability : No data available.

Bioaccumulative Potential : No data available.

Terrestrial Ecotoxicity : This material may be harmful or fatal to contaminated plants or animals, especially if large volumes are released into the environments.

Aquatic Ecotoxicity : Rainbow trout LC50 > 1,000 mg/l
: Other fish and bacteria have been tested and shown even greater resistance

Mobility in Soil : No data available.

Other Adverse Effects : No data available.

13. Disposal Considerations:

Disposal Method : Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations. If possible, dispose of by using in a boiler as recommended.

For Large Spills : Contain material and call local authorities for emergency assistance.

Product Disposal : Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.

Empty Container : Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Labels
US DOT	None	Not Regulated	None		None
IMDG	None	Not Regulated	None		None
IATA	None	Not Regulated	None		None

15. Regulatory Information:

U.S. Federal Regulations:

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Not listed

SARA TITLE III (EPCRA) Section 313: No components of this product were found to be on the hazardous chemicals list.

SARA TITLE III (EPCRA) Section 311/312: Acute health hazard. It is an eye irritant/corrosive due to the high pH and Morpholine.

RCRA: Not a hazardous waste product

FDA: The condensate neutralizing amine in this product is approved for steams that contact food up to a concentration of 15 ppm.

16. Other Information:

HMIS and NFPA Rating Scale:

HMIS: Hazardous Materials Identification System

Numeric Scale for Health (Blue), Flammability (Red), and Physical Hazard (Yellow):

HMIS Rating:*

FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

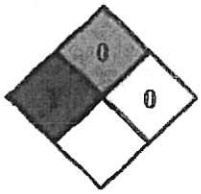
RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or residual injury	Ignites when moderately heated	Product can become unstable and cause violent chemical reaction at normal pressures and temperatures
3	Can cause serious injury	Ignition occurs at normal temperature	Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source.
4	Can be lethal from single or repeated exposure.	Extremely flammable	Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction

Personal Protection Code B: Gloves + Safety Goggles

NFPA: National Fire Protection Association

Numeric Scale for Health (Blue), Fire Hazard (Red), and Reactivity (Yellow):

NFPA Rating:*



RATING	HEALTH	FIRE HAZARD	REACTIVITY
0	Minimal Hazard	Will not burn	Normally Stable
1	Can cause significant irritation	Must be preheated to burn	Unstable at high temperatures
2	Can cause temporary incapacitation or residual injury	Ignites when moderately heated	Normally unstable. Can readily go under violent chemical reaction but do not detonate.
3	Can cause permanent injury.	Ignition occurs at normal temperature	Capable of detonation, or of explosive reaction, but requires a strong ignition source.
4	Can be lethal.	Extremely flammable	May explode at normal temperatures and pressures

Revision Date: May 30, 2015

Reason for Revision: Add necessary data to meet GHS requirements.

This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. P/PM Services, Water Treating Division assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with this material.

P/PM Services, Water Treating Division

1. Company Identification and Product Hazard Overview:

Product Name : CASF-1; tower trtmnt

Recommended Use :

Manufactured BY : **P/PM Services Water Treating Division**
1009 Louisiana Avenue
South Houston, TX 77587
Tel: 713-944-9881
Website: www.ppmserv.com

In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300

2. Hazard Identification:

GHS Classification:
Acute Toxicity, Oral (Category 4)
Acute Toxicity, Inhalation (Category 4)
Acute Toxicity, Dermal (Category 4)
Eye Irritation (Category 2B)

Signal Word: Warning
Pictogram:



Hazard Statements:

H303	: May be harmful if swallowed
H333	: May be harmful is inhaled
H312	: Harmful if in contact with skin
H320	: Causes eye irritation.

Precautionary Statements:

P301 + P330 + P331	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P304 + P340 + P310	: IF INHALED: Remove person to fresh air and keep in position comfortable for breathing
P303 + P352 +P363	: IF ON SKIN or hair: rinse skin with water/shower. Wash contaminated clothing before reuse
P305 + P351 + P338	: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P337 + P313	: If eye or skin irritation persists, get medical attention.
P312	: Call a POISON CENTER or doctor/physician if feeling unwell
P403 + P235	: Store in a well-ventilated place. Keep cool.
P273 + P405	: Avoid release to the environment. Store Locked Up.
P501	: Dispose of contents/container in accordance with local/state/federal regulations.

3. Composition/Information on Ingredient:

Chemical Name : CASF-1

Chemical Family :

Chemical Formula/ Structure : N/A

Substance:	CAS Number:	Hazard	Compo. (%)
CASF-1		See section 2	Proprietary - composition information is available to medical and emergency personnel upon request.

4. First Aid Measures:

Eyes : Flush skin with running water for at least fifteen minutes. Remove any contact lenses. If irritation persists, get medical aid.

Skin : Remove contaminated clothing. Flush skin with running water for fifteen minutes. If irritation persists, get medical aid.

Ingestion : If the product is swallowed, do not induce vomiting. Call doctor/physician/poison center immediately. Never give anything by mouth to an unconscious person.

Inhalation : If safe to do so, remove individual from further exposure. Keep warm and at rest. If cough or other symptoms develop, call doctor/poison center immediately.

PPE for first responders : Gloves and safety goggles are highly recommended.

5. Fire Fighting Measures:

Flash Point (°C) : Not applicable.

Flammable Limits : Not applicable.

Autoignition Temp. : Not applicable.

Flammable Class : Not applicable.

Flame Propagation or Burning Rate of Solids : Not available.

General Hazard : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.

Extinguishing Media : Water spray, chemical-type foam, dry chemical. Appropriate for the surrounding area.

Hazardous Combustion Products : Not applicable

Fire Fighting Procedures : This product is a non-flammable substance. This product is a water solution; only the dried residue could burn, which does not burn readily. Cool exposed containers with water spray to prevent over heating.

Fire Fighting Equipment : Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of the firefighters. If possible, firefighters should control run-off water to prevent environmental contamination.

Sensitivity to Static Discharge : Not sensitive.

Sensitivity to Mechanical Impact : Not sensitive.

6. Accidental Release Measures:

Protective Gear for Personnel:

For Small Spill : Safety glasses or chemical splash goggles, chemically resistant gloves (rubber/latex), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin.

For Large Spill : Chemically resistant gloves (rubber/latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator (NIOSH approved). Self contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

Spill Clean-up Procedures:

For Small Spill : In the event of a small spill, if possible, vacuum up the material and use it as originally intended. If not, the leak should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Do not let chemical/spill waste enter the environment.

For Large Spill : In the event of a large spill, contain the spill immediately and dispose according to state, federal, and local hazardous waste regulation. Do not let chemic/spill waste enter the environment.

Environmental Precaution : Water spill: use appropriate containment to avoid run off or release to sewer or other waterways.
Land spill: use appropriate containment to avoid run off or release to ground.
General precaution: remove containers of strong acid and alkali from the release area.

Release Notes : If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

7. Handling and Storage:

Handling : Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas.

Storage : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. If stored properly, the shelf life is greater than two years. Material may freeze if exposed to temperatures well below 0°C.

8. Exposure Controls and Personal Protection:

Engineering Controls : Use appropriate engineering controls to minimize exposure to vapors generated via routine use. Maintain adequate ventilation of workplace and storage areas. Local exhaust is adequate.

Personal Protective Equipment : **Eyes and face:** Wear safety glasses with side shields or goggles when handling this material. Eye wash facility should be available.
Skin: Avoid direct contact with skin. Wear chemically resistant gloves, apron, boots or whole bodysuit when handling this product.
Respiratory: Avoid breathing vapor or mist. Protection is not normally required.

Work Hygienic Practices : Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

Exposure Limits:

a - Not Required
b - Not Established
c - None

No.	Units	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
1		c	c	c	c
2		b	b	b	b
3		b	b	b	b
4		b	b	b	b
5		c	c	c	c

9. Chemical and Physical Properties:

Appearance	: Clear/Slightly Cloudy Liquid	**Decomposition Temp.**	: Not applicable
Odor	: Not available	**Evaporation Rate**	: Not available
Odor threshold	: Not available	**Flammability**	: Not applicable
Color	: Brown	**Upper Explosive Limit**	: Not applicable
pH (neat)	: 10.0 - 11.0	**Vapor Pressure**	: 17mmHg @ 20°C (due to water)
Melting Point	: Not available	**Vapor Density**	: >1
Freezing Point	: Below 0°C	**Specific Gravity**	: 1.1
Boiling Range	: Above 100°C	**Solubility**	: 100% in water
Flash Point	: Not available	**Percent Volatility**	: 80%
Viscosity	: roughly equivalent to water	**Evaporation Rate (BAC=1)**	: <<1

10. Stability and Reactivity:

Stability : The product is stable under normal ambient conditions of temperature and pressure.

Polymerization : Polymerization will not occur.

Hazardous Decomposition Products : None known

Incompatible Materials : None know

Conditions to Avoid : Avoid exposure to extreme temperatures.

11. Toxicological Information:

Acute Toxicity Data:

Oral LD_{50} : Rat > 1000 mg/kg
Dermal LD_{50} : Rabbit > 1000 mg/kg
Inhalation LD_{50} : No data available

Corrosion/Irritation:

Skin : No data available.
Eyes : No data available.

Sensitization:

Respiratory : No data available.
Skin : No data available.

Carcinogenicity : No data available.
Mutagenicity : No data available.
Reproductive Effects : No data available.
Teratogenic Effects : No data available.

Routes of Exposure : Eyes and Skin

Long Term Exposure Potential Health Effects:

Eyes : Irritation will occur. Prolonged contact can cause tissue damage, due to the high pH largely.
Skin : Irritation may occur in some people due to prolonged exposure and sensitive skin, due to high pH largely.
Inhalation : Irritation of nose, throat, and lungs may occur; however, as a liquid, this material is hard to inhale
Ingestion : CASF-1 is not acutely toxic. Due to the bad taste, no one would normally drink it; however, if more than an ounce is ingested, consult a physician immediately.

12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

Biodegradability	: No data available.
Bioaccumulative Potential	: No data available.
Terrestrial Ecotoxicity	: This material may be harmful or fatal to contaminated plants or animals, especially if large volumes are released into the environments.
Aquatic Ecotoxicity	: Rainbow trout LC50 > 1,000 mg/l : Other fish and bacteria have been tested and shown even greater resistance
Mobility in Soil	: No data available.
Other Adverse Effects	: No data available.

13. Disposal Considerations:

Disposal Method	: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.
For Large Spills	: Contain material and call local authorities for emergency assistance.
Product Disposal	: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.
Empty Container	: Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Labels
US DOT	None	Not Regulated	None		None
IMDG	None	Not Regulated	None		None
IATA	None	Not Regulated	None		None

15. Regulatory Information:

U.S. Federal Regulations:

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Not listed

SARA TITLE III (EPCRA) Section 313: No components of this product were found to be on the hazardous chemicals list.

SARA TITLE III (EPCRA) Section 311/312: Acute health hazard.

RCRA: Not a hazardous waste product

16. Other Information:

HMIS and NFPA Rating Scale:

HMIS: Hazardous Materials Identification System

Numeric Scale for Health (Blue), Flammability (Red), and Physical Hazard (Yellow):

HMIS Rating:*

[illegible]	[illegible]
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

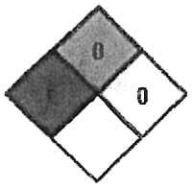
RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or residual injury	Ignites when moderately heated	Product can become unstable and cause violent chemical reaction at normal pressures and temperatures
3	Can cause serious injury	Ignition occurs at normal temperature	Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source.
4	Can be lethal from single or repeated exposure	Extremely flammable	Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction

Personal Protection Code C: Gloves + Safety Goggles

NFPA: National Fire Protection Association

Numeric Scale for Health (Blue), Fire Hazard (Red), and Reactivity (Yellow):

NFPA Rating:*



RATING	HEALTH	FIRE HAZARD	REACTIVITY
0	Minimal Hazard	Will not burn	Normally Stable
1	Can cause significant irritation	Must be preheated to burn	Unstable at high temperatures
2	Can cause temporary incapacitation or residual injury	Ignites when moderately heated	Normally unstable. Can readily go under violent chemical reaction but do not detonate.
3	Can cause permanent injury.	Ignition occurs at normal temperature	Capable of detonation, or of explosive reaction, but requires a strong ignition source.
4	Can be lethal.	Extremely flammable	May explode at normal temperatures and pressures

Revision Date: May 28, 2015

Reason for Revision: Add necessary data to meet GHS requirements.

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K-BAC 7015

SAFETY DATA SHEET

Printed: 04/08/2015
Revision: 04/08/2015
Supersedes Revision: 10/23/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 211214
Product Name: K-BAC 7015
Category: Biocide
Company Name: Water Science Technologies, LLC
5520 Parkwood Circle
Bessemer, AL 35022
Phone Number: (866)284-9244
Emergency Contact: ChemTel, Inc. (US) (800)255-3924
ChemTel, Inc. (Int'l) (813)248-0585
Information: Company EPA #: 88714

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B
Skin Sensitization, Category 1



GHS Signal Word: Danger

GHS Hazard Phrases:
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

GHS Precaution Phrases: P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 - Immediately call a POISON CENTER or doctor/physician.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container to accordance with local and national regulations.

Hazard Rating System:

HMIS:

HEALTH	3
FLAMMABILITY	0
PHYSICAL	0
PPE	D

Potential Health Effects (Acute and Chronic):

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredient(s)	Concentration
7631-99-4	Sodium nitrate	< 2.5 %
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	1.5 %

* Additional Information: The CAS No. of the single components are: CIT: 26172-55-4; MIT: 2682-20-4.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:	
In Case of Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek medical advice/attention immediately.
In Case of Skin Contact:	Wash exposed area with soap and water thoroughly. Remove contaminated clothing and wash before reuse. Seek medical advice/attention immediately.
In Case of Eye Contact:	Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes. Seek medical advice/attention immediately.
In Case of Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Never give anything to and unconscious person. Seek medical advice/attention immediately.
Note to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage. Based on the individual reactions of the patient, the physician's judgment should be used to treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:	> 200.00 F (93.3 C) Method Used: ASTM D Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Product is not flammable under normal conditions. Use extinguishing media suitable for source of the fire. Use water spray to cool the containers exposed to the fire.
Fire Fighting Instructions:	Fire fighters should wear appropriate protective clothing and the appropriate self contained breathing apparatus (if necessary).
Flammable Properties and Hazards:	No data available.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Wear appropriate PPE equipment. See section 8.
Environmental Precautions:	Prevent product from entering sewers and water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Collect liquid by absorbing with an inert material (e.g. vermiculite, dry sand, earth) and place in a container for disposal according to local regulations. Surfaces can be decontaminated with a solution containing 5% sodium hydrogensulfite and 5% sodium bicarbonate In case of product reaching water source, collect contaiminated water and add 10% sodium bisulfite solution. Contact supplier for more instructions.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing product vapors or mists. Use with adequate ventilation. Keep containers closed when not in use.
Precautions To Be Taken in Storing:	Store in a dry, cool, and well ventilated away from heat sources and incompatible materials. Keep containers securely sealed. Protect containers from physical damage and check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
7631-99-4	Sodium nitrate	No data.	No data.	No data.
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	No data.	No data.	No data.

Respiratory Equipment (Specify Type): No Specific requirements. A risk assessment should be made to determine if respiratory protection is necessary.

Eye Protection: Splash goggles and/or face shield.

Protective Gloves: Wear appropriate impermeable gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or airborne exposure limits, whichever is lower. Local exhaust is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area.

Work/Hygienic/Maintenance Practices: An eye wash station should be accessible in the immediate area of use. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: Colorless to pale yellow.
Mild Odor.

Melting Point: No data.

Boiling Point: 100.00 C (212.0 F)

Autoignition Pt: NA

Flash Pt: > 200.00 F (93.3 C) Method Used: ASTM D Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.015-1.035 at 68.0 F (20.0 C)

Vapor Pressure (vs. Air or mm Hg): 23 MBAR

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: soluble

pH: 3.0-4.0

Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: No specific information available.

Incompatibility - Materials To Avoid: Reactive or incompatible with the following materials: Alkali metals, Reducing agents, Strong oxidizing agents, Nucleophiles.

Hazardous Decomposition Or Byproducts: oxides of nitrogen, sulfur oxides (SOx), Carbon oxides, hydrogen chloride.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: No data available.

Carcinogenicity/Other Information:

CAS# 7631-99-4:
Acute toxicity, LD50, Oral, Rat, 1267. MG/KG.
Result:
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation.
Behavioral: Convulsions or effect on seizure threshold.
Lungs, Thorax, or Respiration:Respiratory depression.
- Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 46(12),66, 1981

CAS# 55965-84-9:
Acute toxicity, LD50, Oral, Rat, 53.00 MG/KG.
Result:
Behavioral: Somnolence (general depressed activity).
Behavioral: Ataxia.
Lungs, Thorax, or Respiration:Respiratory depression.
- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam Netherlands, Vol/p/yr: 118,129, 1983

CAS# 7631-99-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Ingredient(s)	NTP	IARC	ACGIH	OSHA
7631-99-4	Sodium nitrate	n.a.	n.a.	n.a.	n.a.
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: Nitrates are predominantly used as fertilizer. Unfortunately, nitrates have a tendency to migrate into groundwater as they do not bind to soil and are extremely soluble. Excessive levels of nitrates in drinking water may cause serious illness and death. Infants are most susceptible to nitrate toxicity. "Blue Baby Syndrome" can occur when the infant's conversion of nitrate to nitrite interferes with the oxygen-carrying capacity of the blood. Symptoms of Blue Baby Syndrome include, but may not be limited to, shortness of breath and bluish colored skin.
Physical: No information available.

Results of PBT and vPvB assessment:

CAS# 7631-99-4:
LC50, Bluegill (Lepomis macrochirus), 12800000. UG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) - 25.00 C (77.0 F) C.
Result:
Age Effects.
- Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

LC50, Water Flea (Daphnia magna), 5980000. UG/L, 24 H, Mortality, Water temperature: 21.00 C (69.8 F) - 25.00 C (77.0 F) C.
Result:
Affected fish lost equilibrium prior to death.
- Toxicity of Selected Chemicals to Certain Animals, Dowden, B.F., and H.J. Bennett, 1965

Not reported., Green Algae (Scenedesmus acutus var. acutus), Exponential Growth Phase, 120000. UG/L, 1 H, Physiology, Water temperature: 30.00 C (86.0 F) C, pH: 7.00.
Result:
Affected fish became hypoactive.
Affected fish lost equilibrium prior to death.
- Toxicity of Ammonia to Algae in Sewage Oxidation Ponds, Abeliovich, A., and Y. Azov, 1976

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Biocide or Pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Biocide/Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your nearest EPA Regulation Office for guidance

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.(2-methyl-2H-isothiazol-3-one (3:1))		
DOT Hazard Class:	8 CORROSIVE		
UN/NA Number:	UN3265	**Packing Group:**	II



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.(Mixture, 5-chloro-2-methyl-2H-isothiazol-3-one and2-methyl-2H-isothiazol-3-one (3:1))		
UN Number:	3265	**Packing Group:**	II
Hazard Class:	8 - CORROSIVE	**TDG Classification:**	

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.(Mixture, 5-chloro-2-methyl-2H-isothiazol-3-one and2-methyl-2H-isothiazol-3-one (3:1))		
UN Number:	UN3	**Packing Group:**	II
Hazard Class:	8 - CORROSIVE		
		IMDG MFAG Number:	
IMDG EMS Page:			

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Corrosive liquid, acidic, organic, n.o.s.(Mixture, 5-chloro-2-methyl-2H-isothiazol-3-one and2-methyl-2H-isothiazol-3-one (3:1))		
UN Number:	3265	**Packing Group:**	II
Hazard Class:	8 - CORROSIVE		

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Ingredient(s)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7631-99-4	Sodium nitrate	No	No	Yes-Cat. N511
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:	[X] Yes [ ] No	Acute (immediate) Health Hazard
	[X] Yes [ ] No	Chronic (delayed) Health Hazard
	[X] Yes [ ] No	Fire Hazard
	[ ] Yes [X] No	Sudden Release of Pressure Hazard
	[ ] Yes [X] No	Reactive Hazard

CAS #	Ingredient(s)	Canadian NPRI	Canadian IDL	Canadian DSL
7631-99-4	Sodium nitrate	No	Yes	Yes
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	No	No	Yes

CAS #	Ingredient(s)	Other US EPA or State Lists
7631-99-4	Sodium nitrate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

CAS #	Ingredient(s)	International Regulatory Lists
7631-99-4	Sodium nitrate	
55965-84-9	Mixture, 5-Chloro-2-methyl-2H-isothiazol-3-one & 2-Methyl-2H-isothiazol-3-one (3:1)	

Canadian WHMIS Classification:

No data available.

Regulatory Information:

Primary EPA Registration # : 88714-7
This product is subject to registration under FIFRA.
All ingredients are reported in the EPA TSCA Inventory.

Canadian regulations: This product is not registered for sale or use as a pesticide in Canada.

16. OTHER INFORMATION

Revision Date: 04/08/2015

Additional Information About This Product: No data available.

Company Policy or Disclaimer: The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information.is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

K-BROM T

Printed: 03/24/2015
Revision: 03/24/2015
Supersedes Revision: 09/04/2014

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	210914	
Product Name:	K-BROM T	
Category:	Biocide	
Company Name:	Water Science Technologies, LLC 5520 Parkwood Circle Bessemer, AL 35022	**Phone Number:** (866)284-9244
Emergency Contact:	ChemTel, Inc. (US) ChemTel, Inc. (Int'l)	(800)255-3924 (813)248-0585
Information:	Company EPA #: 88714	
Intended Use:	A biocide used to control bacteria, algae, slime, and fungi.	

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1B
Skin Sensitization, Category 1
Aquatic Toxicity (Chronic), Category 1



GHS Signal Word:	**Danger**
GHS Hazard Phrases:	H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
GHS Precaution Phrases:	P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P362+364 - Take off contaminated clothing and wash it before reuse. P273 - Avoid release to the environment.
GHS Response Phrases:	P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P310 - Immediately call a POISON CENTER or doctor/physician. P363 - Wash contaminated clothing before reuse. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER or doctor/physician. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P311 - Call a POISON CENTER or doctor/physician. P391 - Collect spillage.
GHS Storage and Disposal	P501 - Dispose of contents/container to accordance with national and international

Phrases: regulations.
P405 - Store locked up.

Hazard Rating System:

HEALTH	3
FLAMMABILITY	0
PHYSICAL	1
PPE	F

HMIS:

Potential Health Effects (Acute and Chronic):

Inhalation: Irritating to respiratory system.

Skin Contact: May cause sensitization. May cause skin irritation.

Eye Contact: May cause temporary or permanent eye damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredient(s)	Concentration
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	96.0 -99.5 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Call 911 or emergency medical service.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediately call a POISON CENTER or doctor/physician.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

In Case of Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Note to Physician: No specific antidote. Treat symptomatically and supportively. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical or CO2. In case of exothermic decomposition and appearance of smoke, water should be used to suppress it.

Fire Fighting Instructions: Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Flammable Properties and Hazards: Dusts or fumes may form explosive mixtures in air. Forms explosive mixtures with combustible, organic or other easily oxidizable materials.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing to minimize contact with skin. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental Precautions: Avoid release to the environment.

Steps To Be Taken In Case Material Is Released Or Spilled: Evacuate area. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Ventilate the area. Wash area with soap and water.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing in dust from product. Use with adequate ventilation. Keep containers closed when not in use.

Precautions To Be Taken in Storing: Keep away from sources of ignition. Store at temperatures not exceeding 50°C/120°F. Keep container tightly closed. Store in a cool dry place. Store away from incompatible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
32718-18-6	Bromochloro-5,5-dimethylimidazolidine -2,4-dione	No data.	No data.	No data.

Respiratory Equipment (Specify Type): A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye Protection: Chemical safety goggles.

Protective Gloves: Impervious gloves.

Other Protective Clothing: Lab coat and/or apron.

Engineering Controls (Ventilation etc.): Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic/Maintenance Practices: Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[ ] Gas [ ] Liquid [X] Solid
Appearance and Odor:	White to Off-White, Tablet. faint halogenous odor.
Melting Point:	No data.
Boiling Point:	No data.
Decomposition Temperature:	> 160.00 C (320.0 F)
Autoignition Pt:	No data.
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.8 - 2.0
Vapor Pressure (vs. Air or mm Hg):	9.35x10(-3) PA at 25.0 C (77.0 F)
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	0.22g/100mL at 25.0 C (77.0 F)
Solubility Notes:	Benzene: 2.5g/100g at 25C
Percent Volatile:	No data.

10. STABILITY AND REACTIVITY

Reactivity:	Oxidizing agents, Bases, combustible materials.
Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	heating to decomposition. Moisture.
Incompatibility - Materials To Avoid:	Oxidizing agents, Bases.
Hazardous Decomposition Or Byproducts:	Nitrogen oxides, hydrogen chloride. hydrogen bromide. chlorine. Carbon oxides.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: No data available.

CAS# 32718-18-6:
Acute toxicity, LD50, Oral, Rat, 929.0 MG/KG.
Result:
Behavioral: Somnolence (general depressed activity).
Gastrointestinal:Other changes.

Acute toxicity, LC50, Inhalation, Rat, 1.100 MG/L, 4 H.
Result:
Skin and Appendages: Other: Hair.

CAS #	Ingredient(s)	NTP	IARC	ACGIH	OSHA
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

No data available.

Results of PBT and vPvB assessment: CAS# 32718-18-6:
LC50, Rainbow Trout (Oncorhynchus mykiss), 0.400 MG/L, 96 H.
Result:
Age Effects.

LC50, Water Flea (Daphnia magna), 0.750 MG/L, 48 H.
Result:
Age Effects.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Biocide or Pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Biocide/Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your nearest EPA Regulation Office for guidance

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)
DOT Hazard Class: 5.1 OXIDIZER
UN/NA Number: UN1479 **Packing Group:** III



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:	Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)		
UN Number:	1479	**Packing Group:**	III
Hazard Class:	5.1 - OXIDIZER	**TDG Classification:**	

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:	Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)		
UN Number:	UN1	**Packing Group:**	III
Hazard Class:	5.1 - OXIDIZER		
		IMDG MFAG Number:	
IMDG EMS Page:			

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Oxidizing solid, n.o.s.(Bromo-Chloro-5,5-DimethylHydantoin)		
UN Number:	1479	**Packing Group:**	III
Hazard Class:	5.1 - OXIDIZER		

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Ingredient(s)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:	[X] Yes [ ] No	Acute (immediate) Health Hazard
	[X] Yes [ ] No	Chronic (delayed) Health Hazard
	[ ] Yes [X] No	Fire Hazard
	[ ] Yes [X] No	Sudden Release of Pressure Hazard
	[ ] Yes [X] No	Reactive Hazard

CAS #	Ingredient(s)	Canadian NPRI	Canadian IDL	Canadian DSL
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	No	No	No

CAS #	Ingredient(s)	Other US EPA or State Lists
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	CAA HAP,ODC: No; CWA NPDES: No, TSCA: No; CA PROP.65: No

CAS #	Ingredient(s)	International Regulatory Lists
32718-18-6	Bromochloro-5,5-dimethylimidazolidine-2,4-dione	

Canadian WHMIS Classification:

No data available.

Regulatory Information:

US Regulatory information:
Primary EPA Registration # : 88714-4
This product is subject to registration under FIFRA.
All ingredients are reported in the EPA TSCA Inventory.

Canada Regulatory information:
This product complies to the Pest Control Products Act.and is considered exempt from from WHMIS classification.
Registration No.: 31033 Pest Control Products Act.
Canadian regulations: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

Revision Date:	03/24/2015
Additional Information About This Product:	No data available.
Company Policy or Disclaimer:	The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

COMPANY IDENTITY: P/PM Services,Water Treating Div.
PRODUCT IDENTITY: NEUTRALIZING AMINE 50

SDS DATE: 06/12/2017
ORIGINAL: 06/12/2017

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements of the Global Harmonizing System.
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this SDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: NEUTRALIZING AMINE 50
PRODUCT SYNONYMS: None
PRODUCT USES: Neutralizer

COMPANY IDENTITY: P/PM Services,Water Treating Div.
COMPANY ADDRESS: 1009 Louisiana Ave.
COMPANY CITY: South Houston,TX 77587
COMPANY PHONE: 1-713-944-3680
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (CANADA)

SECTION 2. HAZARDS IDENTIFICATION

DANGER!!



2.1 HAZARD STATEMENTS: (CAT = Hazard Category)
(H300s) HEALTH: Skin Corrosion/Irritation(CAT:2)
H315 CAUSES SKIN IRRITATION.
(H300s) HEALTH: Sensitization(CAT:1)
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
(H300s) HEALTH: Serious Eye Damage/Eye Irritation(CAT:2)
H320 CAUSES EYE IRRITATION.
(H300s) HEALTH: Sensitization(CAT:1)
H334 MAY CAUSE ALLERGY/ASTHMA SYMPTOMS/BREATHING DIFFICULTIES IF INHALED.
(H300s) HEALTH: Target Organ Toxicity, Single Exposure; Respiratory Tract Effects(CAT:3)
H335 MAY CAUSE RESPIRATORY IRRITATION.
(H300s) HEALTH: Target Organ Toxicity, Single Exposure; Narcotic Effects(CAT:3)
H336 MAY CAUSE DROWSINESS OR DIZZINESS.

2.2 PRECAUTIONARY STATEMENTS:
EXPOSURE PREVENTION: AVOID ALL CONTACT!
PREVENT DISPERSION OF MISTS OR DUST!
P100s = General, P200s = Prevention, P300s = Response, P400s = Storage, P500s = Disposal

P264	Wash with soap & water thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation, wear respiratory protection.
P302+352	IF ON SKIN: Wash with soap & water.
P304+340	IF INHALED: Remove victim to fresh air & keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present & easy to do - Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P337+313	If eye irritation persists, get medical advice/attention.
P342+311	Call a POISON CENTER or doctor/physician.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container according to: local/regional/national/international regulations.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

COMPANY IDENTITY: P/PM Services,Water Treating Div.
PRODUCT IDENTITY: NEUTRALIZING AMINE 50

SDS DATE: 06/12/2017
ORIGINAL: 06/12/2017

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 COMPOSITION

MATERIAL	CAS#	EINECS#	WT %
Water	7732-18-5	231-791-2	45-55
Morpholine	110-91-8	203-815-1	20-30
2-Diethylaminoethanol	100-37-8	-	5-15
Cyclohexylamine	108-91-8	203-629-0	5-15

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1).

3.2 TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SECTION 4. FIRST AID MEASURES

IN ALL CASES CONSULT A PHYSICIAN!

4.1 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & CHRONIC:
See Section 11 for symptoms/effects, acute & chronic.

4.2 GENERAL ADVICE:
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

4.3 EYE CONTACT:
If this product enters the eyes, check for and remove any contact lenses. Open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing is for 15 minutes. Seek immediate medical attention.

4.4 SKIN CONTACT:
If the product contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.

4.5 INHALATION:
After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR). Seek immediate medical attention.

4.6 SWALLOWING:
If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

4.7 RESCUERS:
In event of emergency, assess the danger before taking action. Do not put yourself at risk of injury. Use personal protective equipment as required. Victims of chemical exposure must be taken for medical attention. If necessary, rescuers should be taken for medical attention. Take a copy of label and SDS to physician or health professional with victim.

4.8 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
NOTES TO PHYSICIAN:
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

COMPANY IDENTITY: P/PM Services,Water Treating Div. SDS DATE: 06/12/2017
PRODUCT IDENTITY: NEUTRALIZING AMINE 50 ORIGINAL: 06/12/2017

SECTION 5. FIRE FIGHTING MEASURES

5.1 FIRE & EXPLOSION PREVENTIVE MEASURES:
NO open flames. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment, lighting.

5.2 SUITABLE (& UNSUITABLE) EXTINGUISHING MEDIA:
Use dry powder, alcohol-resistant foam, water spray, carbon dioxide.

5.3 SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS FOR FIRE FIGHTERS:
Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield, bunker coats, gloves & rubber boots).

5.4 SPECIFIC HAZARDS OF CHEMICAL & HAZARDOUS COMBUSTION PRODUCTS:
COMBUSTIBLE!
Isolate from oxidizers, heat, & open flame.
Closed containers may explode if exposed to extreme heat.
Applying to hot surfaces requires special precautions.
Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:
Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. No action shall be taken involving personal risk without suitable training. Keep unnecessary and unprotected personnel from entering spill area. Do not touch or walk through material. Avoid breathing vapor or mist. Provide adequate ventilation. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area).

6.2 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, EMERGENCY PROCEDURES:
The proper personal protective equipment for incidental releases (such as: < 1 Liter of the product released in a well-ventilated area), use impermeable gloves, they should be Level B: triple-gloves (rubber gloves and nitrile gloves over latex gloves), goggles, face shield, and appropriate body protection.

In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard hat, and Self-Contained Breathing Apparatus or respirator, goggles, face shield, and appropriate body protection.

Personal protective equipment are required wherever engineering controls are not adequate or conditions for potential exposure exist. Select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

6.3 ENVIRONMENTAL PRECAUTIONS:
Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

6.4 METHODS AND MATERIAL FOR CONTAINMENT & CLEAN-UP:
Absorb spilled liquid with poly pads or other suitable absorbent materials. If necessary, neutralize using suitable buffering material, (acid with soda ash or base with phosphoric acid), and test area with litmus paper to confirm neutralization.

For small liquid spills (< 1 drum), transfer by mechanical means such as vacuum truck to a labeled, sealable container for product recovery or safe disposal.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste.

For all liquid spills: Allow residues to evaporate or soak up with non-combustible absorbent (such as: sand, soil, and so on) material and dispose of safely. Clean up all spill residue with shovels and put in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

6.5 NOTIFICATION PROCEDURES:
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting release of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Isolate from oxidizers, heat, & open flame.
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.
Do not get in eyes, on skin or clothing.
Wear goggles, face shield, gloves, apron & footwear impervious to material.
Consult Safety Equipment Supplier. Wash clothing before reuse.
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze, or weld. Empty container very hazardous! Continue all label precautions!

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Keep in fireproof surroundings. Keep separated from strong oxidants, strong acids. Keep dry.
Do not store above 49 C/120 F.
Keep container tightly closed & upright when not in use to prevent leakage.

7.3 NONBULK: CONTAINERS:
Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

7.4 BULK CONTAINERS:
All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

7.5 TANK CAR SHIPMENTS:
Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cars must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

7.6 PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:
Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, Provincial, or local procedures.

7.7 EMPTY CONTAINER WARNING:
Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.**

COMPANY IDENTITY: P/PM Services,Water Treating Div.
PRODUCT IDENTITY: NEUTRALIZING AMINE 50

SDS DATE: 06/12/2017
ORIGINAL: 06/12/2017

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 EXPOSURE LIMITS:

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Water	7732-18-5	231-791-2	None Known	None Known
Morpholine	110-91-8	203-815-1	20 ppm S	20 ppm S A4
2-Diethylaminoethanol	100-37-8	-	2 ppm	2 ppm
Cyclohexylamine	108-91-8	203-629-0	10 ppm	10 ppm A4

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

8.2 APPROPRIATE ENGINEERING CONTROLS:

RESPIRATORY EXPOSURE CONTROLS
Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations, after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown. Maintain airborne contaminant concentrations below exposure limits. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For particulates, a particulate respirator (NIOSH Type N95 or better filters) may be worn. If oil particles (such as: lubricants, cutting fluids, glycerine, and so on) are present, use a NIOSH Type R or P filter. For a higher level of protection, use positive pressure supplied air respiration protection or Self-Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS
Positive pressure, full-face piece Self-Contained Breathing Apparatus; or positive pressure, full-face piece Self-Contained Breathing Apparatus with an auxiliary positive pressure Self-Contained Breathing Apparatus.

VENTILATION

LOCAL EXHAUST:	Necessary	MECHANICAL (GENERAL):	Necessary
SPECIAL:	None	OTHER:	None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, chemical splash goggles should be worn, when a higher degree of protection is necessary, use splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

HAND PROTECTION:
Use gloves chemically resistant to this material. Glove must be inspected prior to use. Preferred examples: Butyl rubber, Chlorinated Polyethylene, Polyethylene, Ethyl vinyl alcohol laminate ("EVAL"), Polyvinyl alcohol ("PVA"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber ("nitrile") or ("NBR"), Polyvinyl chloride ("PVC") or "vinyl"), Viton. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practices. Wash and dry hands.

BODY PROTECTION:
Use body protection appropriate for task. Cover-all, rubber aprons, or chemical protective clothing made from impervious materials are generally acceptable, depending on the task.

COMPANY IDENTITY: P/PM Services,Water Treating Div.
PRODUCT IDENTITY: NEUTRALIZING AMINE 50

SDS DATE: 06/12/2017
ORIGINAL: 06/12/2017

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

WORK & HYGIENIC PRACTICES:
Provide readily accessible eye wash stations & safety showers. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored or used. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash hands, forearms and face promptly and thoroughly after handling chemical products, before eating, smoking and using toilet facilities and at the end of the working period. Remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, Water-White
ODOR:	Amine
ODOR THRESHOLD:	Not Available
pH (Neutrality):	11.0
MELTING POINT/FREEZING POINT:	Not Available
BOILING RANGE (IBP,50%,Dry Point):	111 123 163 C / 232 254 326 F
FLASH POINT (TEST METHOD):	87 C / 190 F (COC)
EVAPORATION RATE (n-Butyl Acetate=1):	0.118
FLAMMABILITY CLASSIFICATION:	Class IIIA
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	0.85 (Lowest Component)
UPPER FLAMMABLE LIMIT IN AIR (% by vol):	Not Available
VAPOR PRESSURE (mm of Hg)@20 C	15.0
VAPOR DENSITY (air=1):	1.1
GRAVITY @ 68/68 F / 20/20 C:	
DENSITY:	0.949
SPECIFIC GRAVITY (Water=1):	0.950
POUNDS/GALLON:	7.914
WATER SOLUBILITY:	Complete
PARTITION COEFFICIENT (n-Octane/Water):	Not Available
AUTO IGNITION TEMPERATURE:	398 C / 750 F
DECOMPOSITION TEMPERATURE:	Not Available
TOTAL VOC'S (TVOC)*:	24.1 Vol% / 241.3 g/L / 2.0 Lbs/Gal
NONEXEMPT VOC'S (CVOC)*:	51.7 Vol% / 241.3 g/L / 2.0 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	0.0 Wt% /0.0 g/L / 0.000 Lbs/Gal
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	0.0
VISCOSITY @ 20 C (ASTM D445):	Not Available

* Using CARB (California Air Resources Board Rules).

SECTION 10. STABILITY & REACTIVITY

10.1 REACTIVITY & CHEMICAL STABILITY:
Stable under normal conditions, no hazardous reactions when kept from incompatibles.

10.2 POSSIBILITY OF HAZARDOUS REACTIONS & CONDITIONS TO AVOID:
Isolate from oxidizers, heat, & open flame.

10.3 INCOMPATIBLE MATERIALS:
On combustion forms irritating and toxic gases including nitrogen oxides,
Reacts with strong oxidants, causing fire & explosion hazard. Attacks many plastics, rubber, coatings.
Unstable if stored in copper or zinc containers.

10.4 HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide, Carbon Dioxide,
Nitrogen Oxide vapors from burning.

10.5 HAZARDOUS POLYMERIZATION:
Will not occur.

COMPANY IDENTITY: P/PM Services,Water Treating Div. SDS DATE: 06/12/2017
PRODUCT IDENTITY: NEUTRALIZING AMINE 50 ORIGINAL: 06/12/2017

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 ACUTE HAZARDS

11.1.1 SKIN CONTACT:
Primary irritation to skin, defatting, dermatitis.
11.1.2 This product may cause allergic skin reaction.
Absorption thru skin increases exposure.
Wash thoroughly after handling.

11.1.2 EYE CONTACT:
Primary irritation to eyes, redness, tearing, blurred vision.
Liquid can cause severe skin & eye burns. May cause blindness.

11.1.3 INHALATION:
Anesthetic. Irritates respiratory tract. Acute overexposure
can cause serious nervous system depression. Vapor harmful. can cause Allergic
respiratory or asthma-like reaction.
Repeated exposure over TLV can cause respiratory,reproductive & visual
disorders. May cause death.

11.1.4 SWALLOWING:
Harmful or fatal if swallowed.
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.
can cause death.

11.2 SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Pre-existing disorders of any target organs mentioned in this Document can be
aggravated by over-exposure through routes of entry to components of this
product. Persons with these disorders should avoid use of this product.

11.3 CHRONIC HAZARDS

11.3.1 CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
This product has no carcinogens listed by IARC, NTP, NIOSH,
OSHA or ACGIH, as of this date, greater or equal to 0.1%. Studies show Cyclohexylamine
causes reproductive damage.Absorption thru skin may be harmful. Studies with
laboratory animals indicate this product can cause damage to fetus. & reproductive
system.

Depending on degree of exposure, periodic medical examination is indicated.

11.3.2 TARGET ORGANS: May cause damage to target organs, based on animal data.

11.3.3 IRRITANCY: Irritating to contaminated tissue.

11.3.4 SENSITIZATION: No component is known as a sensitizer.

11.3.5 MUTAGENICITY: No known reports of mutagenic effects in humans.

11.3.6 EMBRYOTOXICITY: No known reports of embryotoxic effects in humans.

11.3.7 TERATOGENICITY: No known reports of teratogenic effects in humans.

11.3.8 REPRODUCTIVE TOXICITY: No known reports of reproductive effects in humans.

COMPANY IDENTITY: P/PM Services,Water Treating Div.
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SDS DATE: 06/12/2017
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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

A MUTAGEN is a chemical which causes permanent changes to genetic material (DNA) such that the changes will propagate across generational lines. An EMBRYOTOXIN is a chemical which causes damage to a developing embryo (such as: within the first 8 weeks of pregnancy in humans), but the damage does not propagate across generational lines. A TERATOGEN is a chemical which causes damage to a developing fetus, but the damage does not propagate across generational lines. A REPRODUCTIVE TOXIN is any substance which interferes in any way with the reproductive process.

11.4 MAMMALIAN TOXICITY INFORMATION

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
Cyclohexylamine	108-91-8	-	160.0 mg/kg(Rats)

SECTION 12. ECOLOGICAL INFORMATION

12.1 ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.2 EFFECT OF MATERIAL ON PLANTS AND ANIMALS:
This product may be harmful or fatal to plant and animal life if released into the environment. Refer to Section 11 (Toxicological Information) for further data on the effects of this product's components on test animals.

12.3 EFFECT OF MATERIAL ON AQUATIC LIFE:
No aquatic environmental information is available on this product.

12.4 MOBILITY IN SOIL
This material is a mobile liquid.

12.5 DEGRADABILITY
This product is completely biodegradable.

12.6 ACCUMULATION
This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE USED CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY BURST AND CAUSE INJURY OR DEATH.** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. Original labels must not be removed, and lids must be closed. The person collecting the container(s) must be provided with an SDS.
Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal.
ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.

SECTION 14. TRANSPORT INFORMATION

DOT/TDG SHIP NAME: Corrosive liquid, n.o.s.
(Contain: Morpholine), 8, UN1760
Combustible liquid. Not DOT regulated on trucks in containers of < 119 gallons.
DRUM LABEL: CORROSIVE (8)
IATA / ICAO: Corrosive liquid, n.o.s.
(Contain: Morpholine), 8, UN1760
IMO / IMDG: Corrosive liquid, n.o.s.
(Contain: Morpholine), 8, UN1760
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 153

COMPANY IDENTITY: P/PM Services,Water Treating Div.
PRODUCT IDENTITY: NEUTRALIZING AMINE 50

SDS DATE: 06/12/2017
ORIGINAL: 06/12/2017

SECTION 15. REGULATORY INFORMATION

15.1 EPA REGULATION:
SARA SECTION 311/312 HAZARDS: Acute Health

All components of this product are on the TSCA list.
This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

15.2 STATE REGULATIONS:
CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):
This product contains no chemicals known to the State of California to cause cancer or reproductive toxicity.

15.3 INTERNATIONAL REGULATIONS
The identified components of this product are listed on the chemical inventories of the following countries:
Australia (AICS), Canada (DSL or NDSL), China (IECSC), Europe (EINECS, ELINCS), Japan (METI/CSCL, MHLW/ISHL), South Korea (KECI), New Zealand (NZIoC), Philippines (PICCS), Switzerland (SWISS), Taiwan (NECSI), USA (TSCA).

15.4 CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)
B3: Combustible Liquid.
D2B: Irritating to skin / eyes.

This product was classified using the hazard criteria of the Controlled Products Regulations (CPR). This Document contains all information required by the CPR.

SECTION 16. OTHER INFORMATION

16.1 HAZARD RATINGS:
HEALTH (NFPA): 3, HEALTH (HMIS): 3, FLAMMABILITY: 2, PHYSICAL HAZARD: 0
(Personal Protection Rating to be supplied by user based on use conditions.)
This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

16.2 EMPLOYEE TRAINING
See Section 2 (Hazards Identification). Employees should be made aware of all hazards of this material (as stated in this SDS) before handling it.

16.3 SDS DATE: 06/12/2017

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.
Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein.
This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Unless updated, the Safety Data Sheet is valid until 06/12/2020.
Safety Data Sheet was prepared by: Chemical Data Services, e-mail: chemdatsrv@aol.com.

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: Liquichlor 10-16% (Sodium Hypochlorite 10-16%)

SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System.
THIS SDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this SDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: Liquichlor 10-16% (Sodium Hypochlorite 10-16%)
SDS NUMBER: OX76685
NEW MSDS DATE: 12/21/2011
COMPANY IDENTITY: Univar
COMPANY ADDRESS: 17425 NE Union Hill Road
COMPANY CITY: Redmond, WA 98052
COMPANY PHONE: 1-425-889-3400
EMERGENCY PHONES: CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (CANADA)

SECTION 2. HAZARDS IDENTIFICATION

DANGER!!

EXPOSURE PREVENTION: STRICT HYGIENE! AVOID ALL CONTACT!



RISK STATEMENTS:

R35	Causes severe burns.
R50	Very toxic to aquatic organisms.

SAFETY STATEMENTS:

S1/2	Keep locked up and out of the reach of children.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
S45	In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).
S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	EINECS#	WT %
Water	7732-18-5	231-791-2	84-98
Sodium Hypochlorite	7681-52-9	-	< 16
Sodium Hydroxide	1310-73-2	-	<= 1.75

Trace components: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:
If this product enters the eyes, open eyes while under gently running water. Use sufficient force to open eyelids. "Roll" eyes to expose more surface. Minimum flushing is for 15 minutes. Seek immediate medical attention.

SKIN CONTACT:
If the product contaminates the skin, immediately begin decontamination with running water. Minimum flushing is for 15 minutes. Remove contaminated clothing, taking care not to contaminate eyes. If skin becomes irritated and irritation persists, medical attention may be necessary. Wash contaminated clothing before reuse, discard contaminated shoes.

INHALATION:
After high vapor exposure, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR). Seek immediate medical attention. In case of inhalation of decomposition products in a fire, symptoms may be delayed.The exposed person may need to be kept under medical surveillance for 48 hours.

SWALLOWING:
If swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional advice is not available, give two glasses of water to drink. DO NOT INDUCE VOMITING. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek immediate medical attention.

NOTES TO PHYSICIAN:
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: Gastric lavage after endotracheal intubation).

Victims of chemical exposure must be taken for medical attention. Rescuers should be taken for medical attention, if necessary. Take a copy of label and SDS to physician or health professional with victim.

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES
Not Applicable.

EXTINGUISHING MEDIA
Use dry powder, foam, carbon dioxide, water spray, halon, or any "ABC" Class extinguisher.

SPECIAL FIRE FIGHTING PROCEDURES
Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield, bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES
Noncombustible.
Isolate from reducers, acids, wood, organic materials, and most metals.
Oxidizer fumes damage lungs. Symptoms may be delayed. Do not breathe fumes.

COMPANY IDENTITY: Univar
PRODUCT IDENTITY: Liquichlor 10-16% (Sodium Hypochlorite 10-16%)

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE AND ENVIRONMENTAL PRECAUTIONS:
Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

PERSONAL PROTECTIVE EQUIPMENT
The proper personal protective equipment for incidental releases (such as: 1 Liter of the product released in a well-ventilated area), use impermeable gloves (triple-gloves (rubber gloves and nitrile gloves, over latex gloves), goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, specific for the material handled, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with latest OSHA and/or ANSI recommendations.

ENVIRONMENTAL PRECAUTIONS:
Stop spill at source. Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Close or cap valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate emergency assistance.

CONTAINMENT AND CLEAN-UP MEASURES:
Absorb spilled liquid with polypads or other suitable absorbent materials. If necessary, neutralize using suitable buffering material, (acid with soda ash or base with phosphoric acid), and test area with litmus paper to confirm neutralization. Clean up with non-combustible absorbent (such as: sand, soil, and so on). Shovel up and place all spill residue in suitable containers. dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal (see Section 13 - Disposal Considerations).

SECTION 7. HANDLING AND STORAGE

HANDLING
Use only with adequate ventilation. Do not get in eyes, on skin or clothing.
Wear OSHA Standard full face shield. Consult Safety Equipment Supplier. Wear goggles, face shield, gloves, apron & footwear impervious to material. Wash clothing before reuse. NEVER pour water into this substance. When dissolving or diluting, always add it slowly to the water.
To minimize static discharge when transferring, ensure electrical continuity by bonding and grounding all equipment. Use an inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

STORAGE
Keep separated from strong oxidants, strong acids, combustible & reducing substances, metals, food & feedstuffs. Keep cool. Keep dry. Keep in the dark. See: Section 10, <Materials to Avoid>. Do not store above 49 C/120 F. Keep container tightly closed & upright when not in use to prevent leakage.
Wear full face shield, gloves & full protective clothing when opening or handling.
When empty, drain completely, replace bungs securely.

NONBULK: CONTAINERS:
Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Empty containers should be handled with care. Never store food, feed, or drinking water in containers which held this product.

BULK CONTAINERS:
All tanks and pipelines which contain this material must be labeled. Perform routine maintenance on tanks or pipelines which contain this product. Report all leaks immediately to the proper personnel.

SECTION 7. HANDLING AND STORAGE (CONTINUED)

TANK CAR SHIPMENTS:
Tank cars carrying this product should be loaded and unloaded in strict accordance with tank-car manufacturer's recommendation and all established on-site safety procedures. Appropriate personal protective equipment must be used (see Section 8, Engineering Controls and Personal Protective Equipment.). All loading and unloading equipment must be inspected, prior to each use. Loading and unloading operations must be attended, at all times. Tank cares must be level, brakes must be set or wheels must be locked or blocked prior to loading or unloading. Tank car (for loading) or storage tanks (for unloading) must be verified to be correct for receiving this product and be properly prepared, prior to starting the transfer operations. Hoses must be verified to be in the correct positions, before starting transfer operations. A sample (if required) must be taken and verified (if required) prior to starting transfer operations. All lines must be blown-down and purged before disconnecting them from the tank car or vessel.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT:
Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely. Always use this product in areas where adequate ventilation is provided. Collect all rinsates and dispose of according to applicable Federal, State, or local procedures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	CAS#	EINECS#	TWA (OSHA)	TLV (ACGIH)
Water	7732-18-5	231-791-2	None Known	None Known
Sodium Hydroxide	1310-73-2	-	2 mg/m3	None Known
Sodium Hypochlorite	7681-52-9	-	None Known	None Known

MATERIAL	CAS#	EINECS#	CEILING	STEL(OSHA/ACGIH)	HAP
Sodium Hydroxide	1310-73-2	-	2 mg/m3	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

RESPIRATORY EXPOSURE CONTROLS
Maintain airborne contaminant concentrations below exposure limits given above. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, European Standard EN 149, or applicable State regulations. If adequate ventilation is not available or there is potential for airborne exposure above the exposure limits, a respirator may be worn up to the respirator exposure limitations, check with respirator equipment manufacturer's recommendations/limitations. For a higher level of protection, use positive pressure supplied air respiration protection or Self Contained Breathing Apparatus or if oxygen levels are below 19.5% or are unknown.

EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS
Positive pressure, full-face piece Self Contained Breathing Apparatus; or positive pressure, full-face piece Salf Contained Breathing Apparatus with an auxilliary positive pressure Self Contained Breathing Apparatus.

VENTILATION
LOCAL EXHAUST: Necessary MECHANICAL (GENERAL): Necessary
SPECIAL: None OTHER: None
Please refer to ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

EYE PROTECTION:
Splash goggles or safety glasses. Face-shields are recommended when the operation can generate splashes, sprays or mists.

HAND PROTECTION:
Wear appropriate impervious gloves for routine industrial use. Use impervious gloves for spill response, as stated in Section 6 of this SDS (Accidental Release Measures).

Univar
3075 Highland Pkwy STE 200
Downers Grove, IL 60515
425-889-3400

SAFETY DATA SHEET

. Identification

Product identifier: - SULFURIC ACID w/more than 51%

Other means of identification

SDS number: 000100000025

Recommended use and restriction on use

Recommended use: Reserved for industrial and professional use.

Restrictions on use: Not known.

Emergency telephone number:For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

Hazard(s) identification

azard Classification

Health Hazards

Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1
Environmental Hazards Acute hazards to the aquatic environment	Category 3

bel Elements

Hazard Symbol



Signal Word	Danger
Hazard Statement	Causes severe skin burns and eye damage. Harmful to aquatic life.
Precautionary Statements	
Prevention	Do not breathe dust or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Sulfuric Acid		7664-93-9	>=52 - <=100%
Water		7732-18-5	<=48%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The components are not hazardous or are below required disclosure limits.

. First-aid measures

ngestion: Call a physician or poison control center immediately. DO NOT induce vomiting. Get medical attention immediately. Never give liquid to an unconscious person.

halation: Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.

kin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

ye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

lost important symptoms/effects, acute and delayed

Symptoms: No data available.

lication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

Fire-fighting measures

eneral Fire Hazards: No unusual fire or explosion hazards noted.

uitable (and unsuitable) extinguishing media

Suitable extinguishing media: Do not use water as an extinguisher. Use: Carbon dioxide or dry powder.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up:	Absorb spillage with non-combustible, absorbent material.
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
Environmental Precautions:	Avoid release to the environment. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling:	Use personal protective equipment as required. Do not allow contact with water. Store away from incompatible materials. Use only with adequate ventilation. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
Conditions for safe storage, including any incompatibilities:	Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Limit Values	Source
Sulfuric Acid	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	0.1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	3 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
Sulfuric Acid - Thoracic fraction.	TWA	0.2 mg/m3	US. ACGIH Threshold Limit Values (03 2013)
Sulfuric Acid	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

ppropriate Engineering Controls No data available.

ıdividual protection measures, such as personal protective equipment

General information: Provide easy access to water supply and eye wash facilities. Use personal protective equipment as required. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye/face protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Do not get this material in contact with skin.

9. Physical and chemical properties

Physical state:	liquid
Form:	No data available.
Color:	Colorless
Odor:	Odorless
Odor threshold:	No data available.
pH:	0.3
Melting point/freezing point:	3 °C 37.4 °F
Initial boiling point and boiling range:	337 °C 638.6 °F
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.84
Solubility(ies)	
Solubility in water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

0. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Contact with water may cause flash fire.
Conditions to avoid:	Avoid heat or contamination.
ncompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

1. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

nformation on toxicological effects

cute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix (): 2,140 mg/kg

Dermal

Product:	No data available.

Inhalation

Product:	No data available.

ecified substance(s):

Sulfuric Acid	LC50 (Rat,): 375 mg/m3 (, No) 2 = reliable with restrictions

Repeated dose toxicity

Product:	No data available.

kin Corrosion/Irritation

Product:	No data available.

erious Eye Damage/Eye Irritation

Product:	No data available.

espiratory or Skin Sensitization

Product:	No data available.

arcinogenicity

Product:	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Sulfuric Acid	Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Sulfuric Acid	Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Sulfuric Acid	LC50 (Starry, european flounder (Platichthys flesus), 48 h): 100 - 330 mg/l Mortality LC50 (Western mosquitofish (Gambusia affinis), 24 h): 42 mg/l Mortality LC50 (Western mosquitofish (Gambusia affinis), 48 h): 42 mg/l Mortality LC50 (Western mosquitofish (Gambusia affinis), 96 h): 42 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Sulfuric Acid	LC50 (Aesop shrimp (Pandalus montagui), 48 h): 42.5 mg/l Mortality LC50

(Common shrimp, sand shrimp (Crangon crangon), 48 h): 70 - 80 mg/l Mortality LC50 (Green or European shore crab (Carcinus maenas), 48 h): 70 - 80 mg/l Mortality LC50 (Cockle (Cerastoderma edule), 48 h): 200 - 500 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Sulphuric acid: No data available.

Water: No data available.

Known or predicted distribution to environmental compartments

Sulphuric acid: No data available.

. Disposal considerations

isposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

ontaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1830
UN Proper Shipping Name:	Sulfuric acid
Transport Hazard Class(es)	
Class:	8
Label(s):	8
Packing Group:	II
Marine Pollutant:	Not regulated.
Special precautions for user:	–

IMDG

UN Number:	UN 1830
UN Proper Shipping Name:	SULPHURIC ACID
Transport Hazard Class(es)	
Class:	8
Label(s):	8
EmS No.:	F-A, S-B
Packing Group:	II
Marine Pollutant:	Not regulated.
Special precautions for user:	–

IATA

UN Number:	UN 1830
Proper Shipping Name:	Sulphuric acid
Transport Hazard Class(es):	
Class:	8
Label(s):	8
Packing Group:	II
Environmental Hazards	Not regulated.
Special precautions for user:	–
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

15. Regulatory information

US Federal RegulationsUS. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Sulfuric Acid — Reportable quantity: 1000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

[X] Acute (Immediate) [X] Chronic (Delayed) [ ] Fire [ ] Reactive [ ] Pressure Generating

SARA 302 Extremely Hazardous Substance

Chemical Identity	RQ	Threshold Planning Quantity
Sulfuric Acid	1000 lbs.	1000 lbs.

SARA 304 Emergency Release Notification

Chemical Identity	RQ
Sulfuric Acid	1000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Chemical Identity	Threshold Planning Quantity
Sulfuric Acid	500lbs
Water	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Sulfuric Acid	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Sulfuric Acid — Reportable quantity: 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Sulfuric Acid — Threshold quantity: 10000 lbs

S State Regulations

US. California Proposition 65

Sulfuric Acid — Carcinogenic.

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Sulfuric Acid — Carcinogenic.

US. New Jersey Worker and Community Right-to-Know Act
Sulfuric Acid Listed
US. Massachusetts RTK - Substance List
Sulfuric Acid Listed
US. Pennsylvania RTK - Hazardous Substances
Sulfuric Acid Listed
US. Rhode Island RTK
Sulfuric Acid Listed

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory

16.Other information, including date of preparation or last revision

HMIS Hazard ID

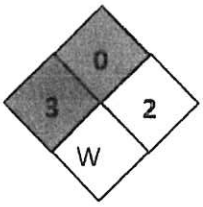
Health	*	3
Flammability		
Physical Hazards		2
PERSONAL PROTECTION		K

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Further Information: Classification not possible. Consult the Supplier in Section 1 of the SDS for additional data.

NFPA Hazard ID



Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible
W: Water-reactive

Issue Date: 02/06/2017
Revision Date: No data available.

Univar USA Inc Safety Data Sheet

For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process

ENVIRO-FLOC
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	231015	
Product Name:	ENVIRO-FLOC	
Category:	Coagulant	
Company Name:	P/PM Services, Inc. 1009 Louisiana Ave South Houston , TX 77587	Phone Number: 713-944-3680
Emergency Contact:	ChemTel, Inc. (US) ChemTel, Inc. (Int'l)	800-255-3924 813-248-0585
Information:	Company EPA# 88714	

2. HAZARDS IDENTIFICATION

Aquatic Toxicity (Acute), Category 3
Aquatic Toxicity (Chronic), Category 3

GHS Signal Word:	**None**
GHS Hazard Phrases:	H402 - Harmful to aquatic life. H412 - Harmful to aquatic life with long lasting effects.
GHS Precaution Phrases:	P273 - Avoid release to the environment.
GHS Response Phrases:	No phrases apply.
GHS Storage and Disposal Phrases:	P501 - Dispose of contents/container to an approved waste disposal site.
Hazard Rating System:	HEALTH 1 FLAMMABILITY 0 0
HMIS:	PPE C
Potential Health Effects (Acute and Chronic):	Acute: May result in mild irritation of a short-term nature for the skin and eyes. Chronic: Prolonged or repeated skin contact may cause dermatitis.
Inhalation:	Not considered hazardous under normal conditions of use.
Skin Contact:	None expected, May cause skin irritation.
Eye Contact:	None expected, May cause eye irritation.
Ingestion:	None expected, May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredient(s)	Concentration
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine	~50.0 %

ENVIRO-FLOC
SAFETY DATA SHEET

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek medical advice/attention if you feel unwell.

In Case of Skin Contact: Wash exposed area with soap and water thoroughly. Remove contaminated clothing and wash before reuse. Seek medical advice/attention if irritation develops or persists.

In Case of Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes. Seek medical advice/attention if irritation develops or persists.

In Case of Ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything to and unconscious person. Seek medical advice/attention if you feel unwell.

Note to Physician: Based on the individual reactions of the patient, the physician's judgment should be used to treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt: > 200.00 F (93.3 C) Method Used: ASTM D Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Product is not flammable under normal conditions. Use extinguishing media suitable for source of the fire. Use water spray to cool the containers exposed to the fire.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures: Wear appropriate PPE equipment. See section 8.

Environmental Precautions: Avoid release to the environment.

Steps To Be Taken In Case Material Is Released Or Spilled: Collect liquid by absorbing with an inert material (e.g. vermiculite, dry sand, earth) and place in a container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing product vapors or mists. Use with adequate ventilation. Keep containers closed when not in use.

Precautions To Be Taken in Storing: Store in a dry, cool, and well ventilated away from heat sources and incompatible materials. Keep containers securely sealed. Protect containers from physical damage and check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENVIRO-FLOC
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CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Eye Protection: Chemical safety goggles.

Protective Gloves: Wear appropriate gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to minimize contact with skin.

Engineering Controls (Ventilation etc.): Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or airborne exposure limits, whichever is lower. Local exhaust is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area.

Work/Hygienic/Maintenance Practices: An eye wash station should be accessible in the immediate area of use. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor: Yellow to Amber.
amine-like.

Freeze Point/Pour Point: 20.00 F (-6.7 C) - 32.00 F (0.0 C)

Boiling Point: > 210.00 F (98.9 C)

Autoignition Pt: No data.

Flash Pt: > 200.00 F (93.3 C) Method Used: ASTM D Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.14+/-0.05

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: soluble

pH: 5.0 - 7.0

Percent Volatile: No data.

ENVIRO-FLOC
SAFETY DATA SHEET

10. STABILITY AND REACTIVITY

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: No data available.

Incompatibility - Materials To Avoid: Strong oxidizing agents, Copper, Aluminum, Mild or Galvanized Steel.

Hazardous Decomposition or Byproducts: nitrogen oxides. Carbon oxides, Hydrogen chloride gas.

Will occur [ ] Will not occur [X]

Possibility of Hazardous Reactions: No data available.

Conditions To Avoid - Hazardous Reactions:

11. TOXICOLOGICAL INFORMATION

Toxicological Information: The product has not been tested. Any statements on toxicology have been derived from products of a similar structure and composition.

CAS #	Ingredient(s)	NTP	IARC	ACGIH	OSHA
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological *Information:* The product has not been tested. Any statements on eco-toxicology have been derived *from* products of a similar structure and composition.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Whatever cannot be saved for recovery or recycling should be disposed of in accordance with local, state, and federal regulations. Consult state or local regulation for any additional handling, treatment, or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal, or recycling facility.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.
UN Number:
Hazard Class:

TDG Classification:

ENVIRO-FLOC
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MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Ingredient(s)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No Acute (immediate) Health Hazard
[ ] Yes [X] No Chronic (delayed) Health Hazard
[ ] Yes [X] No Fire Hazard
[ ] Yes [X] No Sudden Release of Pressure Hazard
[ ] Yes [X] No Reactive Hazard

CAS #	Ingredient(s)	Canadian NPRI	Canadian IDL	Canadian DSL
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine	No	No	Yes

CAS #	Ingredient(s)
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

CAS #	Ingredient(s)
42751-79-1	1,2-Ethanediamine, polymer with(chloromethyl)oxirane and N-methylmethanamine

International Regulatory Lists

Canadian WHMIS Classification:

No data available.

Regulatory Information: Canadian regulations: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

Revision Date: 05/04/2015

Additional Information About This Product: No data available.

Company Policy or Disclaimer: The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or

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in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

Attachment 7: Copy of payment voucher # 663167

Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	663167
Trace Number:	582EA000570271
Date:	10/03/2023 10:57 AM
Payment Method:	CC - Authorization 0000079410
Voucher Amount:	$1,200.00
Fee Type:	WW PERMIT - MINOR FACILITY SUBJECT TO 40 CFR 400-471 - RENEWAL
ePay Actor:	NARAYAN DAVE
Actor Email:	narayan@ramkrupa.com
IP:	216.250.226.5

Payment Contact Information

Name:	NARAYAN DAVE
Company:	MONUMENT CHEMICAL BAYTOWN LLC
Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Phone:	832-376-2046

Site Information

RN:	RN100214832
Site Name:	MONUMENT CHEMICAL BAYTOWN
Site Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Site Location:	5501 WEST BAKER ROAD BAYTOWN TX 77520

Customer Information

CN:	CN604039297
Customer Name:	MONUMENT CHEMICAL BAYTOWN LLC
Customer Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520

Other Information

Program Area ID:	0001914000

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Print this voucher for your records. If you are sending the TCEQ hardcopy documents related to this payment, include a copy of this voucher.

Transaction Information

Voucher Number:	663168
Trace Number:	582EA000570271
Date:	10/03/2023 10:57 AM
Payment Method:	CC - Authorization 0000079410
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	NARAYAN DAVE
Actor Email:	narayan@ramkrupa.com
IP:	216.250.226.5

Payment Contact Information

Name:	NARAYAN DAVE
Company:	MONUMENT CHEMICAL BAYTOWN LLC
Address:	5501 WEST BAKER ROAD, BAYTOWN, TX 77520
Phone:	832-376-2046

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