Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Cabot Corporation (CN600124911) operates Pampa Plant (RN100221761), a carbon black manufacturing facility. The facility is located at 11569 US Highway 60, in Pampa, Gray County, Texas 79065 which is approximately 2.7 miles southwest of the intersection of State Highway 70 and and U.S. Highway 60. The applicant requests to renew the current permit without changes.

Discharges from this facility are not expected to contain any pollutants. Wastewater treatment at the facility involves collecting nitric acid wash water from the outside of the tanks and within the containment area in a sump and neutralizing using soda ash. The neutralized water is pumped from the sump to Pond 1. Water in the ponds is neutralized as needed with muriatic acid to maintain the pH.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

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

Cabot Corporation (CN600124911) opera Pampa Plant (RN100221761), un planta de fabricación de negro de carbono. La instalación está ubicada en 11569 US Highway 60, en Pampa, Condado de Gray, Texas 79065 que está aproximadamente a 2.7 millas al suroeste de la intersección de la autopista estatal 70 y la autopista U.S. Highway 60. El solicitante solicita la renovación del permiso actual sin cambios.

No se espera que las descargas de esta instalación contengan contaminantes. Tratamiento de aguas residuales en la instalación consiste en recolectar agua de lavado con ácido nítrico del exterior de los tanques y dentro del área de contención en un sumidero y neutralización con carbonato de sodio. El agua neutralizada se bombea desde el sumidero hasta el estanque 1. El agua de los estanques se neutraliza según sea necesario con ácido muriático para mantener el pH.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0001442000

APPLICATION. Cabot Corporation, P.O. Box 5001, Pampa, Texas 79066, which owns a carbon black production facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0001442000 to authorize the disposal of treated wastewater and stormwater at an intermittent and flow-variable volume via evaporation. The facility and disposal area are located at 11569 U.S. Highway 60, approximately 2.7 miles southwest of the intersection of State Highway 70 and U.S. Highway 60, near the city of Pampa, in Gray County, Texas 79065. TCEQ received this application on February 20, 2025. The permit application will be available for viewing and copying at Lovett Memorial Public Library, 111 North Houston Street, Pampa, in Gray County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.015555,35.510277&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

Further information may also be obtained from Cabot Corporation at the address stated above or by calling Mr. Jeff Robertson, Environmental Manager, at 806-661-3107.

Issuance Date: March 18, 2025

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECEPCIÓN DE LA SOLICITUD Y LA INTENCIÓN DE OBTENER CALIDAD DEL AGUA PERMISO
RENOVACIÓN

PERMISO NO. WQ0001442000

SOLICITUD. Cabot Corporation ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) por una renovación Permiso No. WQ0001442000 autorizar la eliminación de aguas residuales y pluviales tratadas a un volumen intermitente y de caudal variable mediante evaporación. La planta y el sitio de disposición están ubicadas en 11569 U.S. Highway 60, aproximadamente a 2,7 millas al suroeste de la intersección de la carretera estatal 70 y la carretera estadounidense 60, cerca de la ciudad de Pampa, en el Condado de Gray, Texas. 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://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. La TCEQ recibió esta solicitud el día 20 de febrero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en 111 calle norte de Houston, Pampa, en el Condado de Gray, Texas antes de la fecha de publicación de este aviso en el periódico. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.015555,35.510277&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.

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 Cabot Corporation a la dirección indicada arriba o llamando a Señor Jeff Robertson Gerente de Medio Ambiente al 806-661-3107.

Fecha de emisión: 18 de marzo de 2025

TEXAS COMMISSION ON ENVIRONMENTAL

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

RENEWAL

Permit No. WQ0001442000

APPLICATION AND PRELIMINARY DECISION. Cabot Corporation, 11561 US Highway 60, Pampa, Texas, 79066, which operates Cabot Pampa Plant, a carbon black production facility, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0001442000, which authorizes the disposal of process wastewater (quench water, process area and equipment wash down water, scrubber wastewater, hydrostatic testing water, truck wash bay water, stormwater from process areas, stormwater from the feedstock secondary containment, stormwater from the secondary urea containment area, urea from incidental piping leaks, neutralized nitric acid wastewater, and electric heater knockout water) and stormwater via evaporation. This permit will not authorize the discharge of pollutants into water in the state. The TCEQ received this application on February 20, 2025.

The facility and disposal area are located at 11561 U.S. Highway 60, approximately 2.7 miles southwest of the intersection of State Highway 70 and U.S. Highway 60, near the City of Pampa, Gray County, Texas 79065. 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=-101.015555,35.510277&level=18

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 the Lovett Memorial Public Library, 111 North Houston Street, Pampa, in Gray County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/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 Cabot Corporation at the address stated above or by calling Mr. Jeff Robertson, Environmental Manager, at (806) 661-3107.

Issued: October 7, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE SOLICITUD Y DECISIÓN PRELIMINAR PARA PERMISO PARA APLICACIÓN DE LA CALIDAD DEL AGUA EN TERRENOS PARA AGUAS RESIDUALES INDUSTRIALES

RENOVACIÓN

PERMISO NO. WQ 0001442000

SOLICITUD Y DECISIÓN PRELIMINAR. Cabot Corporation 11561 Carretera US 60, Pampa, Texas, 79066 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por una renovación para autorizar La planta Cabot Pampa, una instalación de producción de negro de humo, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación del Permiso TCEQ N.º WQ0001442000, que autoriza la eliminación de aguas residuales de procesos (agua de enfriamiento, agua de lavado de equipos y áreas de proceso, aguas residuales de depuradores, agua de pruebas hidrostáticas, agua de la bahía de lavado de camiones, aguas pluviales de áreas de proceso, aguas pluviales del contenimiento secundario de materia prima, aguas pluviales del área de contención secundaria de urea, urea de fugas incidentales en tuberías, aguas residuales de ácido nítrico neutralizado y agua de apagado de calentadores eléctricos) y aguas pluviales mediante evaporación. Este permiso no autorizará una descarga de contaminantes a las aguas del estado. La TCEQ recibió esta solicitud el 20 de febrero de 2025.

La planta y el sitio de disposición están ubicadas en 11561 U.S. Highway 60, aproximadamente a 2,7 millas al suroeste de la intersección de la State Highway 70 y la U.S. Highway 60, cerca de la ciudad de Pampa,79605 en el Condado de Gray, Texas. 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=-101.015555,35.510277&level=18

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 Pública Lovett Memorial, 111 North Houston Street, Pampa, en el condado de Gray, 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/tlap-applications.

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

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

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.

Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. 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.

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 Corporación Cabot a la dirección indicada arriba o llamando a Señor Jeff Robertson al (806) 661-3107.

Fecha de emisión: el 7 de octubre de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 20, 2025

Re: Confirmation of Submission of the Renewal without changes for Industrial Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Renewal without changes for the Industrial Wastewater authorization.

ER Account Number: ER024434
Application Reference Number: 755184
Authorization Number: WQ0001442000
Site Name: Cabot Pampa Plant
Regulated Entity: RN100221761 - Cabot Pampa Plant
Customer(s): CN600124911 - Cabot Corporation

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

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

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0001442000

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CABOT PAMPA PLANT
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	LOCATED 2.7 MI SW OF THE INTERSECTION OF SH 70 AND US HWY 60
City	PAMPA
State	TX
ZIP	79065
County	GRAY
Latitude (N) (##.######)	35.510277
Longitude (W) (-###.######)	-101.015555
Primary SIC Code	2895
Secondary SIC Code	
Primary NAICS Code	325182
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN100221761
What is the name of the Regulated Entity (RE)?	CABOT PAMPA PLANT
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	11561 US HWY 60
City	PAMPA
State	TX
ZIP	79065
County	GRAY
Latitude (N) (##.######)	35.51
Longitude (W) (-###.######)	-101.015
Facility NAICS Code	
What is the primary business of this entity?	CARBON BLACK MANUFACTURING

Cabot C-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600124911

Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	Cabot Corporation
Texas SOS Filing Number	2053506
Federal Tax ID	42271897
State Franchise Tax ID	10422718972
State Sales Tax ID	
Local Tax ID	
DUNS Number	1013580
Number of Employees	101-250
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Cabot Corporation
Prefix	MR
First	Jeff
Middle	
Last	Robertson
Suffix	
Credentials	
Title	ENVIRONMENTAL MANAGER
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 5001
Routing (such as Mail Code, Dept., or Attn:)	
City	PAMPA
State	TX
ZIP	79066
Phone (###-###-####)	8066613107
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	8066613134
E-mail	jeff.robertson@CABOTCORP.COM

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600124911, Cabot Corporation

Organization Name	CABOT CORPORATION
Prefix	MR
First	Chad
Middle	
Last	Clements
Suffix	
Credentials	
Title	Facility General Manager
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 5001
Routing (such as Mail Code, Dept., or Attn:)	
City	PAMPA
State	TX
ZIP	79066
Phone (###-###-####)	8066613104
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	Chad.clements@CABOTCORP.COM

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	CN600124911, Cabot Corporation
Organization Name	BGE Inc
Prefix	MS
First	Cydney
Middle	
Last	Schwarzlose
Suffix	
Credentials	
Title	DIRECTOR
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1701 DIRECTORS BLVD
Routing (such as Mail Code, Dept., or Attn:)	Suite 1000
City	AUSTIN

State	TX
ZIP	78744
Phone (###-###-####)	5128108314
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	cschwarzlose@bgeinc.com

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	CABOT CORPORATION
Prefix	MR
First	JEFF
Middle	
Last	Robertson
Suffix	
Credentials	
Title	ENVIRONMENTAL MANAGER
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 5001
Routing (such as Mail Code, Dept., or Attn:)	
City	PAMPA
State	TX
ZIP	79066
Phone (###-###-####)	8066613107
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	8066613134
E-mail	jeff.robertson@CABOTCORP.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	
Organization Name	CABOT CORPORATION
Prefix	MR

First	JEFF
Middle	
Last	Robertson
Suffix	
Credentials	
Title	ENVIRONMENTAL MANAGER
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 5001
Routing (such as Mail Code, Dept., or Attn:)	
City	PAMPA
State	TX
ZIP	79066
Phone (###-###-####)	8066613107
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	8066613134
E-mail	jeff.robertson@CABOTCORP.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	DMR Contact
2) Organization Name	CABOT CORPORATION
3) Prefix	MR
4) First	JEFF
5) Middle	
6) Last	Robertson
7) Suffix	
8) Credentials	
9) Title	ENVIRONMENTAL MANAGER
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 5001
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	PAMPA
11.4) State	TX

11.5) ZIP	79066
12) Phone (###-###-####)	8066613107
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	jeff.robertson@CABOTCORP.COM

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	Cabot Corporation
4) Mailing Address	PO Box 5001
5) City	Pampa
6) State	TX
7) Zip Code	79066
8) Phone (###-###-####)	8066613100
9) Extension	
10) Email	Chad.clements@CABOTCORP.COM
11) What is ownership of the treatment facility?	Private
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	Cabot Corporation
15) Mailing Address	PO Box 5001
16) City	Pampa
17) State	TX
18) Zip Code	79066
19) Phone (###-###-####)	8066613100
20) Extension	
21) Email	chad.clements@CABOTCORP.COM
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	10/01/2025
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No

4) What is the application type that you are seeking?	Renewal without changes
5) Current Authorization type:	Industrial Wastewater
5.1) What is your EPA facility classification?	Minor
5.1.1) Are the discharges at your facility subjected to federal effluent limitation guidelines (ELG) 40 CFR Part 400-471?	Yes
5.1.1.1) Select the applicable fee for the Minor facility that is subjected to 40 CFR 400-471:	Renewal - $1,215
6) What is the classification for your authorization?	TLAP
6.1) Is the location of the effluent disposal site in the existing permit accurate?	Yes
6.2) City nearest the disposal site:	Pampa TX
6.3) County in which the disposal site is located:	GRAY
6.4) Describe the routing of effluent from the treatment facility to the disposal site:	Effluent is not routed to a disposal site. Effluent is routed directly to the on-site evaporation ponds with no discharge off-site.
6.5) Identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:	N/A - rainfall runoff does not leave the site
6.6) If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?	Not Applicable
Owner of Effluent TLAP Disposal Site	
6.7) Prefix	
6.8) First and Last Name	
6.9) Organization Name	Cabot Corporation
6.10) Mailing Address	PO Box 5001
6.11) City	Pamap
6.12) State	TX
6.13) Zip Code	79066
6.14) Phone (###-###-####)	8066613104
6.15) Extension	
6.16) Email	chad.clements@CABOTCORP.COM
6.17) Is the landowner the same person as the facility owner or co-applicant?	Yes
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	Yes
7.1) List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:	Dominique Henson

Public Notice Information

Individual Publishing the Notices

1) Prefix	MR
2) First and Last Name	Jeff Robertson
3) Credential	
4) Title	Environmental Manager
5) Organization Name	Cabot Corporation
6) Mailing Address	PO BOX 5001
7) Address Line 2	
8) City	PAMPA
9) State	TX
10) Zip Code	79066
11) Phone (###-###-####)	8066613107
12) Extension	
13) Fax (###-###-####)	
14) Email	jeff.robertson@CABOTCORP.COM
Contact person to be listed in the Notices	
15) Prefix	MR
16) First and Last Name	Jeff Robertson
17) Credential	
18) Title	Environmental Manager
19) Organization Name	Cabot Corporation
20) Phone (###-###-####)	8066613107
21) Fax (###-###-####)	
22) Email	jeff.robertson@CABOTCORP.COM
Bilingual Notice Requirements	
23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	GRAY
2) Public building name	Lovett Memorial Library

3) Location within the building	Library
4) Physical Address of Building	111 N. Houston Street
5) City	Pampa
6) Contact Name	
7) Phone (###-###-####)	8066695780
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_Attachment 2A_Plain Language Summary.docx
Hash	9C39364B65A8F0BB2168C21C3B59C91A0B39D614C6CA2BFC4ED69B8E8303862C
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Industrial Attachments

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

[File Properties]

File Name	MAP_USGS Topographic Map Attachment 3A.pdf
Hash	B4BB226C289F852978E66935F760DFE37742F12A9D7C5BAC511BF7CE73F759D6
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 1.0 (EPA Categorical Effluent Guidelines) is complete and included in the Technical Attachment.	Yes
2.2) I confirm that Worksheet 3.0 (Land Application of Effluent) is complete and included in the Technical Attachment.	Yes
2.3) Are you planning to include Worksheet 4.1 (Waterbody Physical Characteristics) in the Technical Attachment?	No
2.4) Are you planning to include Worksheet 6.0 (Industrial Waste Contribution) in the Technical Attachment?	No
2.5) Are you planning to include Worksheet 7.0 (Stormwater Discharges Associated with Industrial Activities) to the Technical Attachment?	No
2.6) Are you planning to include Worksheet 8.0 (Aquaculture) in the Technical Attachment?	No

2.7) Are you planning to include Worksheet 9.0 (Class V Injection Well Inventory/Authorization) in the Technical Attachment?	No
2.8) Are you planning to include Worksheet 10.0 (Quarries in the John Graves Scenic Riverway) in the Technical Attachment?	No
2.9) Are you planning to include Worksheet 11.0 (Cooling Water System Information) in the Technical Attachment?	No
2.10) Are you planning to include Worksheet 11.1 (Impingement Mortality) in the Technical Attachment?	No
2.11) Are you planning to include Worksheet 11.2 (Source Water Biological Data) in the Technical Attachment?	No
2.12) Are you planning to include Worksheet 11.3 (Entrainment) in the Technical Attachment?	No

2.13) Technical Attachment

[File Properties]

File Name	TECH_Industrial Wastewater Technical Report_02072025.pdf
Hash	3608D2F355C7C571B5F9113C22319E58E9C709964B272C17F7DB51FAE2487102
MIME-Type	application/pdf

3) Flow Diagram

[File Properties]

File Name	FLDIA_Attachment 2T_Water Balance Flow Schematic.pdf
Hash	4EC21A1F24B6663D0A16804B5452A789F7046E3C04488E6C4AA3C18209035D86
MIME-Type	application/pdf

4) Site Drawing

[File Properties]

File Name	SITEDR_Facility Map Attachment 1T.pdf
Hash	6796FDA03215CF2920E5D04BC595A1907866E7C98A86935FB16392947D8761F3
MIME-Type	application/pdf

5) Design Calculations

[File Properties]

File Name	DES_CAL_Attachment 5T_Evaporation Pond Storage Calculations.pdf
Hash	167A0D70DFE594DA7E2AAD90DC6A6AA9581C2FF8161ABCF94AF07C19E4FB5746
MIME-Type	application/pdf

6) Solids Management Plan

7) Water Balance

[File Properties]

File Name	WB_Attachment 2T_Water Balance Flow

	Schematic.pdf
Hash	4EC21A1F24B6663D0A16804B5452A789F7046E3C04488E6C4AA3C18209035D86
MIME-Type	application/pdf

8) Other Attachments

[File Properties]	
File Name	OTHER_Attachmemt 3T_SDS Information.pdf
Hash	FC7031641D464C0E64F7DC7ED93E3A28B4EAEC93BAF058439C7E0AD9BE9A7F31
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_Attachment 7A_SPIF Photographs of Structures.pdf
Hash	319895BD498818CE80ADA0D0695EA5CE4BAFB33B4DE1EAFA114B0000E3BEA1CB
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_General Location Map Attachment 6A.pdf
Hash	5F5591385E614A72906E36050BC812392C1F579D5F5C00050236430FC70A0B77
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_e-Pay Voucher.pdf
Hash	19181E6195ADAECBD35534DCE38194AE57FA5B9029002315AAA4A9C4C681CC8E
MIME-Type	application/pdf

Certification

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

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

1. I am Chad Clements, the owner of the STEERS account ER024434.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.

6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0001442000.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Chad Clements OWNER	
Customer Number:	CN600124911
Legal Name:	Cabot Corporation
Account Number:	ER024434
Signature IP Address:	12.25.1.164
Signature Date:	2025-02-20
Signature Hash:	3BD77B026F5BC1D22B23A87CF380331E6FFB7B669B6AB4D47952DF3F909F3E2D
Form Hash Code at time of Signature:	2066ADDFBB21D54097AC199BD6B9211768C2989402B03859431C09FB13565389

Fee Payment

Transaction by:	The application fee payment transaction was made by JEFF ROBERTSON
Paid by:	The application fee was paid by JEFF ROBERTSON
Fee Amount:	$1200.00
Paid Date:	The application fee was paid on 2025-01-29
Transaction/Voucher number:	The transaction number is 582EA000647471 and the voucher number is 744934

Submission

Reference Number:	The application reference number is 755184
Submitted by:	The application was submitted by ER024434/ Chad Clements
Submitted Timestamp:	The application was submitted on 2025-02-20 at 13:24:51 CST
Submitted From:	The application was submitted from IP address 12.25.1.164
Confirmation Number:	The confirmation number is 631603
Steers Version:	The STEERS version is 6.87
Permit Number:	The permit number is WQ0001442000

Additional Information

Application Creator: This account was created by Cydney B Schwarzlose

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Cabot Corporation (CN600124911) operates Pampa Plant (RN100221761), a carbon black manufacturing facility. The facility is located at 11561 US Highway 60, in Pampa, Gray County, Texas 79065. The applicant requests to renew the current permit without changes.

Discharges from this facility are not expected to contain any pollutants. Wastewater treatment at the facility involves collecting nitric acid wash water from the outside of the tanks and within the containment area in a sump and neutralizing using soda ash. The neutralized water is pumped from the sump to Pond 1. Water in the ponds is neutralized as needed with muriatic acid to maintain the pH.

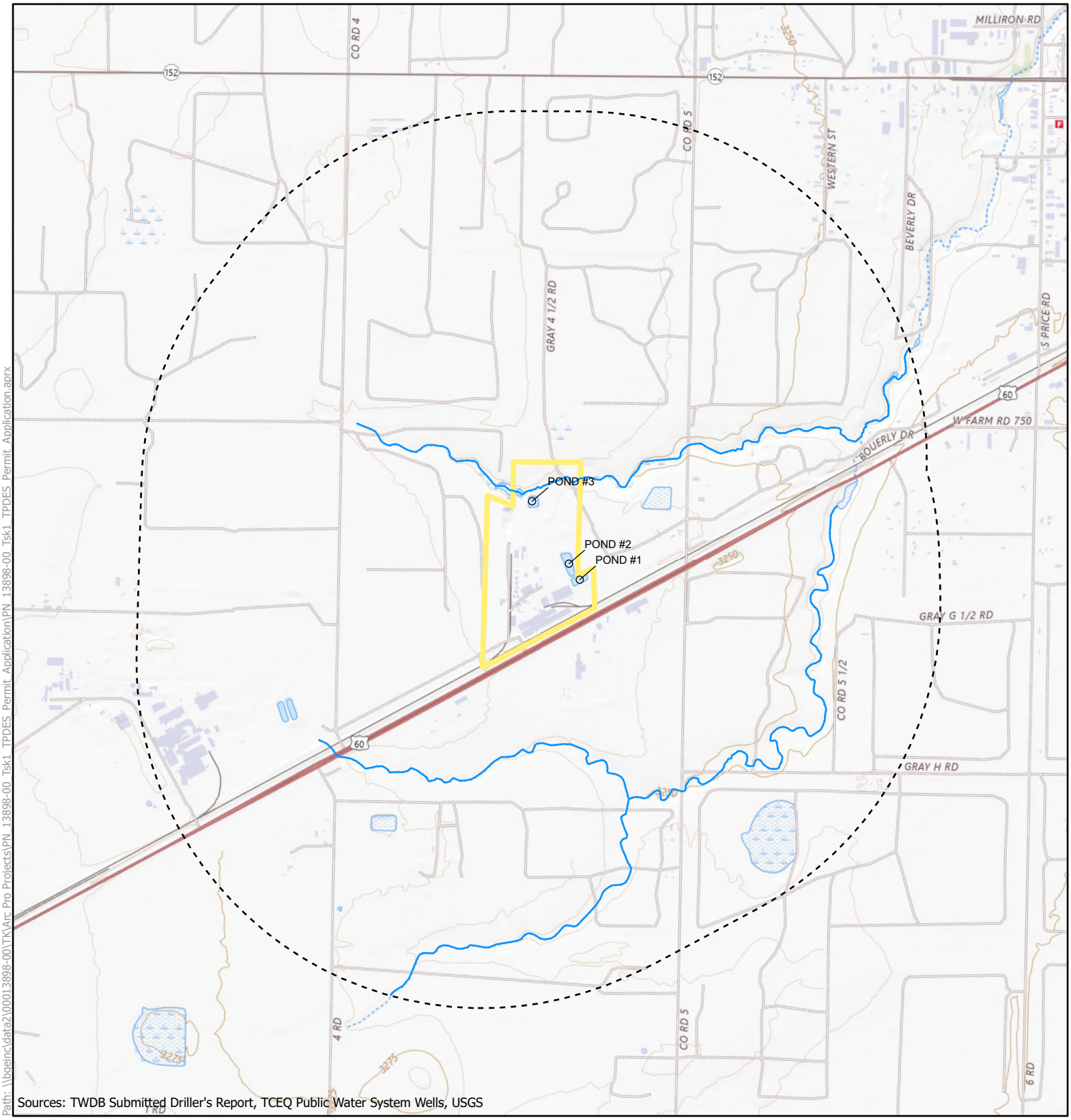
PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

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

Cabot Corporation (CN600124911) opera Pampa Plant (RN100221761), un planta de fabricación de negro de carbono. La instalación está ubicada en 11561 US Highway 60, en Pampa, Condado de Gray, Texas 79065. El solicitante solicita la renovación del permiso actual sin cambios.

No se espera que las descargas de esta instalación contengan contaminantes. Tratamiento de aguas residuales en la instalación consiste en recolectar agua de lavado con ácido nítrico del exterior de los tanques y dentro del área de contención en un sumidero y neutralización con carbonato de sodio. El agua neutralizada se bombea desde el sumidero hasta el estanque 1. El agua de los estanques se neutraliza según sea necesario con ácido muriático para mantener el pH.



Path: \\bgeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: UTM
Zone: 14 North
Units: Meter
Basemap: USGS 7.5' Topographic Quadrangle Lake McConnell, TX & Kingsmill, TX (2022)

0 1,000 2,000 US Feet

0 500 Meters

- Site Boundary
- 1 Mile Radius
- Intermittent Stream
- Water/Pond

TPDES Industrial Wastewater Permit Renewal
Supplemental Permit Information Form
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701

POND #1
STORAGE BUILDING
BUILDING
EQUIPMENT SHED
VEHICLE CAR WASH
POND #2
WATER STORAGE
TANK #6
TANK #5
BUILDING
POND #1
TANK #4
TORNADO SHELTER
SERVICE BUILDING FIRE/QUENCH/UTILITY PUMP
TANK #3
NITRIC ACID NEUTRALIZATION SUMP
TANK #2
MAINTENANCE SHOP
PROCESS WATER ACCUMULATION SUMP AND PUMP STATION
WAREHOUSE #16
TANK #1
WAREHOUSE #15
TORNADO SHELTER
BOILER HOUSE
OIL PUMP
BUILDING
BUILDING
WAREHOUSE #14
BATHHOUSE
LAB AND BATHHOUSE
BUILDING
BLOWER BUILDING
UNIT 5 FILTER
WAREHOUSE #13
COMPRESSOR BUILDING
UNIT 5 CONTROL BUILDING
UNIT 6 BUILDING
DOCK
UNIT 3-4 BUILDING
MCC BUILDING
COOLING
TREATER BUILDING
WAREHOUSE #12
WAREHOUSE #7
UNIT 2
METER SHED
BAG FILTER UNIT 2
WAREHOUSE #11
FEEDSTOCK HEATER
WAREHOUSE #6
WAREHOUSE #10
WAREHOUSE #5
ADMINISTRATION
#2 MAIN UNIT FILTER
WAREHOUSE #9
WAREHOUSE #8
TORNADO SHELTER
WAREHOUSE #8
WAREHOUSE #3
WAREHOUSE #2
TORNADO SHELTERS
WAREHOUSE #1
Source: Nearmap

Path: \\boeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: State Plane
Zone: Texas North
Units: Feet
Basemap: Nearmap 2024

0 125 250 Feet

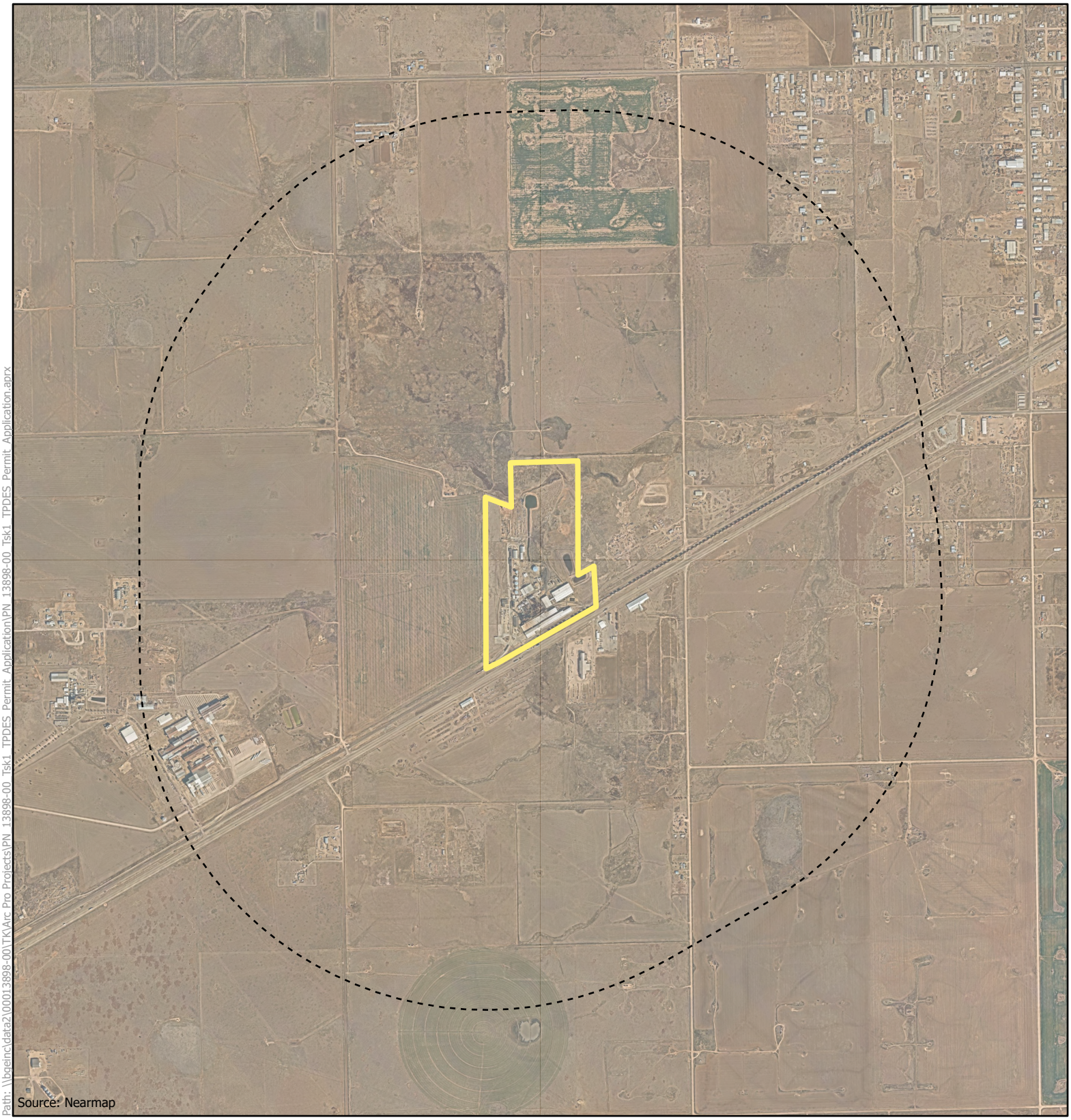
0 25 50 Meters

Site Boundary
Building
Water/Pond

TPDES Industrial Wastewater Permit Renewal
Facility Map
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065

Job No.: 13898-00	1 IN = 250 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701



Path: \\bgeinc\data2\000013898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Site Boundary

1 Mile Radius

Datum: NAD 1983
Projection: State Plane
Zone: Texas North
Units: Feet
Basemap: Nearmap 2024

0 1,000 2,000 US Feet

0 500 Meters

TPDES Industrial Wastewater Permit Renewal
SPIF General Location Map
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701

Supplemental Permit Information Form Attachment 7A

Photographs of Structures

Supplemental Permit Information Form
Photographs of Structures (Attachment 7A)

Cabot Corporation Pampa Plant
TPDES Permit Renewal Application
TPDES Permit No. WQ00014420000

Photo 1. Warehouse No. 1

Photo 2. Boiler House

Supplemental Permit Information Form
Photographs of Structures (Attachment 7A)

Cabot Corporation Pampa Plant
TPDES Permit Renewal Application
TPDES Permit No. WQ00014420000

Photo 3. Blower Building

Photo 4. Compressor Building

Supplemental Permit Information Form
Photographs of Structures (Attachment 7A)

Cabot Corporation Pampa Plant
TPDES Permit Renewal Application
TPDES Permit No. WQ00014420000

Photo 5. Feedstock circulation piping to production units

Photo 6. Oil Pump House

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

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

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

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

SIC Code: 2895. The Pampa Plant uses a furnace process to convert hydrocarbon feedstock material into carbon black. Carbon black is separated from the gas stream using fabric filtration. Carbon black is further processed into the product to be sold. Some carbon black is treated with acid.

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

Process wastewater, including quench water, scrubber discharge water, and area and equipment wash down water is generated and routed to the ponds. Discharge from boiler blowdown, the oil/water knockout pot, and the truck wash bay is also discharged to the ponds. Storm water from process areas and storm water from tank containment areas (including feed stock tanks, future urea tanks, and nitric acid tanks) is also routed to the ponds. Storm water that is collected in containment areas is inspected and oil is removed prior to discharge. The facility discharges small quantities (<5 GPD) of a 75% potassium formate solution to the ditch feeding Ponds 1 and 2. Potassium formate is an additive in the carbon black process. Wastewater and storm water that collect in the sump at the nitric acid tank containment area is neutralized with soda ash and discharged to Pond 1. Small nitric acid leaks and spills occur in the secondary containment during nitric acid loading and unloading and as a result of leaking flanges. Nitric acid leaks are neutralized where the leak occurs and then washed to a sump. The sump is emptied periodically, when the high-level alarm sounds. Prior to discharging water collected in the sump, pH is tested to ensure the material is neutralized with a pH around 7. The sump is discharged to Pond 1 approximately once every two-three weeks. Approximately 50 gallons may be discharged at one time. Cabot

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

installed a SCR system in which urea is used. Small spills and leaks of urea may occur within the secondary containment or from piping to the SCR. Cabot added urea as an authorized chemical to authorize only small leaks that may migrate to the ponds. It is anticipated that any urea discharge would be less than 1 GPD. Cabot is implementing procedures to contain and cleanup any spills of urea to prevent urea from mixing with nitric acid. Cabot may also periodically conduct hydrostatic testing on tanks and/or piping. Water used in the testing is clean, potable water. Prior to hydrostatic testing, tanks and piping are thoroughly cleaned; therefore, no discharge of pollutants would occur as a result of discharging the hydrostatic testing water to the drainage system which feeds to any of the three ponds. The ponds may be neutralized with muriatic acid to maintain the pH. Muriatic acid is periodically added to the ponds to maintain the pH to 7. Although testing has never shown the ponds to exceed the permitted pH parameter of 6-9 s.u., the addition of muriatic acid to the ponds is conducted to prevent nuisance conditions from developing.

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

Materials List

Raw Materials	**Intermediate Products**	**Final Products**
Natural Gas		Carbon Black
Hydrocarbon Oils		
Nitric Acid		
Muriatic Acid		
Urea		
Gasoline		
Diesel		

Attachment: N/A

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

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

Attachment: 1T

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

☐ Yes ☒ No

If **yes**, provide background discussion: N/A

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, Gray County, Texas, FEMA Flood Map Service Center

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

Attachment: N/A

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

☐ Yes ☐ No ☒ N/A (renewal only)

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

☐ Yes ☐ No

If **yes**, provide the permit number: N/A

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

Item 2. Treatment System (Instructions, Page 40)

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

Nitric acid wash water from the outside of the tanks and within the containment area is collected in a sump and neutralized using soda ash. The neutralized water is pumped from the sump to Pond 1. Water in the ponds is neutralized as needed with muriatic acid to maintain the pH.

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: 2T

Item 3. Impoundments (Instructions, Page 40)

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

Impoundment Information

Parameter	**Pond #**	**Pond #**	**Pond #**	**Pond #**
Use Designation: (T) (D) (C) or (E)	E	E	E	
Associated Outfall Number	NA	NA	NA	
Liner Type (C) (I) (S) or (A)	NA	NA	NA	
Alt. Liner Attachment Reference	-	-	-	
Leak Detection System, Y/N	NA	NA	NA	
Groundwater Monitoring Wells, Y/N	NA	NA	NA	
Groundwater Monitoring Data Attachment	4	12	4	
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	NA	NA	NA	
Length (ft)	294	400	294	

Parameter	Pond #	Pond #	Pond #	Pond #
Width (ft)	156	200	156	
Max Depth From Water Surface (ft), Not Including Freeboard	-	-	-	
Freeboard (ft)	1.5	1.5	5	
Surface Area (acres)	1.05	1.836	0.703	
Storage Capacity (gallons)	1,372 MGal	7,181 MGal	3,436 MGal	
40 CFR Part 257, Subpart D, Y/N	N	N	N	
Date of Construction				

Attachment: N/A

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

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

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: N/A

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

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

Attachment: N/A

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

Attachment: N/A

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

Attachment: N/A

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
E1&E2	35˚30'41.8" N	-101˚0'48" E
E3	35˚30'53.028" N	-101˚00'56.0" E

Outfall Location Description

Outfall No.	Location Description
E1&E2	Pipe discharge to evaporation Ponds 1 & 2. There is no discharge from either pond.
E3	Point at which drainage canal discharges to Pond 3. There is no discharge from the pond.

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

Outfall No.	Description of sampling point

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
E1&E2					
E3	(report)	(report)	(report)	.025*	
* Excluding storm water. The proposed max daily flow applies when the freeboard of Pond 3 is five feet or less.					

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
E1	Y	Y	None
E2	Y	Y	Metered
E3	Y	Y	Meter/Weir

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
E1	N	N	Y	24	31	12
E2	N	N	Y	24	31	12
E3						

Outfall Wastestream Contributions

Outfall No. E1,E2

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Process wastewater	0.017 (daily avg)	
Stormwater		
Water collected and neutralized in nitric acid sump (approx. every two weeks)		
Potassium formate solution discharges		
Urea from leaks	0.0012	
Hydrostatic discharge water	0.06	

Outfall No. E3

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Feedstock containment areas	.0068	
Stormwater		
Process wastewater		
Truck wash bay		
Oil/water knockout pot discharges		
Hydrostatic discharge water	0.06	

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

Outfall No. Click to enter text.

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

Attachment: N/A

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

Attachment: 3T

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers	NA	NA	NA
Boilers	1	10	15

Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: Storm water commingles with process wastewater and flows to the retention ponds; however, there is no discharge from the ponds.

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
B&B Septic Systems	20338
City of Amarillo Hollywood Road Plant	10392-003

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: N/A

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: N/A

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

☐ Yes ☐ No

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

Attachment: N/A

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

☐ Yes ☐ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

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

☐ Yes ☒ No

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

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

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

c. Cooling Water Supplier

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

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

CWIS ID				
Owner				
Operator				

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

d. 316(b) General Criteria

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

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

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

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

   ☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

      ☐ Yes ☐ No

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

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

      ☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

      ☐ Yes ☐ No

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

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

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

      ☐ Track I – AIF greater than 10 MGD

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

      ☐ Track II

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

      Attachment: Click to enter text.

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

   ☐ Track I – Fixed facility

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

   ☐ Track I – Not a fixed facility

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

   ☐ Track II – Fixed facility

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

   Attachment: Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

   ☐ Yes ☒ No

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

NA

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

   ☐ Yes ☒ No

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

NA

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

☐ Yes ☒ No

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

NA

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

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

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

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

CERTIFICATION:

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

Printed Name: Chad Clements

Title: Facilities General Manager

Signature: _____

Date: 1/29/25

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND APPLICATION OF EFFLUENT

This worksheet **is required** for all applications for a permit to disposal of wastewater by land application (i.e., TLAP)).

Item 1. Type of Disposal System (Instructions, Page 69)

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: Click to enter text.

Item 2. Land Application Area (Instructions, Page 69)

Land Application Area Information

Effluent Application (gallons/day)	Irrigation Acreage (acres)	Describe land use & indicate type(s) of crop(s)	Public Access? (Y/N)
There is no discharge from any of the evaporation ponds.	0	NA	N

Item 3. Annual Cropping Plan (Instructions, Page 69)

Attach the required cropping plan that includes each of the following:

- 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: N/A

Item 4. Well and Map Information (Instructions, Page 70)

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

☒ 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: 4T

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
632903	Not in service	N	Cased	Depth = 495 ft bgs
632903	Not in service	N	Cased	Depth = 501 ft bgs
632905	Not in service	N	Cased	Depth = 471 ft bgs
632901	Public Water Supply Well For Cabot	Y	Cased	Depth = 471 ft bgs

Attachment: N/A

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: NA

d. Attach a short groundwater technical report using *30 TAC § 309.20(a)(4)* as guidance.
Attachment:

Item 5. Soil Map and Soil Information (Instructions, Page 71)

Check each box to confirm that the following information is attached:

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:** NA

Item 6. Effluent Monitoring Data (Instructions, Page 72)

a. 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 1 for Outfall No.: Pond 3 **Samples are (check one): ☐ Composite ☒ Grab**

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
10/2022	80496						
11/2022	123552						
12/2022	84384						
1/2023	88128						
2/2023	85680						
3/2023	44352						
4/2023	94896						
5/2023	73872						
6/2023	119232						
7/2023	68544						
8/2023	79056						
9/2023	112320						
10/2023	92592						
11/2023	64368						
12/2023	127872						
1/2024	77328						
2/2024	148464						
3/2024	122544						
4/2024	82512						

Date (mo/yr)	Daily Avg Flow (gpd)	BOD5 (mg/L)	TSS (mg/L)	Nitrogen (mg/L)	Conductivity (mmhos/cm)	Total acres irrigated	Hydraulic Application rate (acre-feet/month)
5/2024	55008						
6/2024	58464						
7/2024	98064						
8/2024	135360						
9/2024	154944						

b. 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						
10/2022	8.6						
11/2022	8.6						
12/2022	8.6						
1/2023	8.6						
2/2023	8.6						
3/2023	8.6						
4/2023	8.6						
5/2023	8.6						
6/2023	8.6						
7/2023	8.6						
8/2023	8.6						
9/2023	8.6						
10/2023	8.6						
11/2023	8.6						
12/2023	8.6						
1/2024	8.6						
2/2024	8.3						
3/2024	8.3						
4/2024	8.3						
5/2024	8.3						
6/2024	8.3						
7/2024	8.3						
8/2024	8.3						
9/2024	8.3						

c. Attach an explanation of all persistent excursions to permitted parameters and corrective actions taken. **Attachment:** Click to enter text.

Item 7. Pollutant Analysis (Instructions, Page 72)

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): NA

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

c. Complete Tables 15 and 16.

Table 2 for Outfall No.: Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (mg/L)**	**Sample 2 (mg/L)**	**Sample 3 (mg/L)**	**Sample 4 (mg/L)**
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 3 for Outfall No.: Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)**	**Sample 2 (µg/L)**	**Sample 3 (µg/L)**	**Sample 4 (µg/L)**	**MAL (µg/L)**
Aluminum, total					2.5
Antimony, total					5

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND APPLICATION AND APPLICATION

This worksheet **is required** for all applications for a permit to disposal of wastewater by surface land application or evaporation.

Item 1. Edwards Aquifer (Instructions, Page 73)

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:

- 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: NA

Item 2. Surface Spray/Irrigation (Instructions, Page 73)

a. Provide the following information on the irrigation operations:

Area under irrigation (acres): NA

Design application rate (acre-ft/acre/yr): NA

Design application frequency (hours/day): NA

Design application frequency (days/week): NA

Design total nitrogen loading rate (lbs nitrogen/acre/year): NA

Average slope of the application area (percent): NA

Maximum slope of the application area (percent): NA

Irrigation efficiency (percent): NA

Effluent conductivity (mmhos/cm): NA

Soil conductivity (mmhos/cm): NA

Curve number: NA

Describe the application method and equipment: NA

b. Attach a detailed engineering report which includes a water balance, storage volume calculations, and a nitrogen balance. **Attachment:** Click to enter text.

Item 3. Evaporation Ponds (Instructions, Page 74)

a. Daily average effluent flow into ponds: 25,000 gallons per day

b. Attach a separate engineering report of evaporation calculations for average long-term and worst-case critical conditions. **Attachment:** 5T

Item 4. Evapotranspiration Beds (Instructions, Page 74)

a. Provide the following information on the evapotranspiration beds:

Number of beds: NA

Area of bed(s) (acres): NA

Depth of bed(s) (feet): NA

Void ratio of soil in the beds: NA

Storage volume within the beds (include units): NA

Description of any lining to protect groundwater: NA

b. Attach a certification by a licensed Texas professional engineer that the liner meets TCEQ requirements. **Attachment:** NA

c. Attach a separate engineering report with water balance, storage volume calculations, and description of the liner. **Attachment:** NA

Item 5. Overland Flow (Instructions, Page 74)

a. Provide the following information on the overland flow:

Area used for application (acres): NA

Slopes for application area (percent): NA

Design application rate (gpm/foot of slope width): NA

Slope length (feet): NA

Design BOD5 loading rate (lbs BOD5/acre/day): NA

Design application frequency (hours/day): NA

Design application frequency (days/week): NA

b. Attach a separate engineering report with the method of application and design requirements according to *30 TAC § 217.212*. **Attachment: N/A**

Attachment 1T
Facility Map

POND #1
STORAGE BUILDING
BUILDING
EQUIPMENT SHED
VEHICLE CAR WASH
POND #2
WATER STORAGE
TANK #6
TANK #5
BUILDING
POND #1
TANK #4
TORNADO SHELTER
SERVICE BUILDING FIRE/QUENCH/UTILITY PUMP
TANK #3
NITRIC ACID NEUTRALIZATION SUMP
TANK #2
MAINTENANCE SHOP
PROCESS WATER ACCUMULATION SUMP AND PUMP STATION
WAREHOUSE #16
TANK #1
WAREHOUSE #15
TORNADO SHELTER
BOILER HOUSE
OIL PUMP
BUILDING
BUILDING
WAREHOUSE #14
BATHHOUSE
LAB AND BATHHOUSE
BUILDING
BLOWER BUILDING
UNIT 5 FILTER
WAREHOUSE #13
COMPRESSOR BUILDING
UNIT 5 CONTROL BUILDING
UNIT 6 BUILDING
DOCK
UNIT 3-4 BUILDING
MCC BUILDING
COOLING
TREATER BUILDING
WAREHOUSE #12
WAREHOUSE #7
UNIT 2
METER SHED
BAG FILTER UNIT 2
WAREHOUSE #11
FEEDSTOCK HEATER
WAREHOUSE #6
WAREHOUSE #10
WAREHOUSE #5
ADMINISTRATION
#2 MAIN UNIT FILTER
WAREHOUSE #9
WAREHOUSE #8
TORNADO SHELTER
WAREHOUSE #8
WAREHOUSE #3
WAREHOUSE #2
TORNADO SHELTERS
WAREHOUSE #1
Source: Nearmap

Path: \\boeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: State Plane
Zone: Texas North
Units: Feet
Basemap: Nearmap 2024

0 125 250 Feet

0 25 50 Meters

Site Boundary
Building
Water/Pond

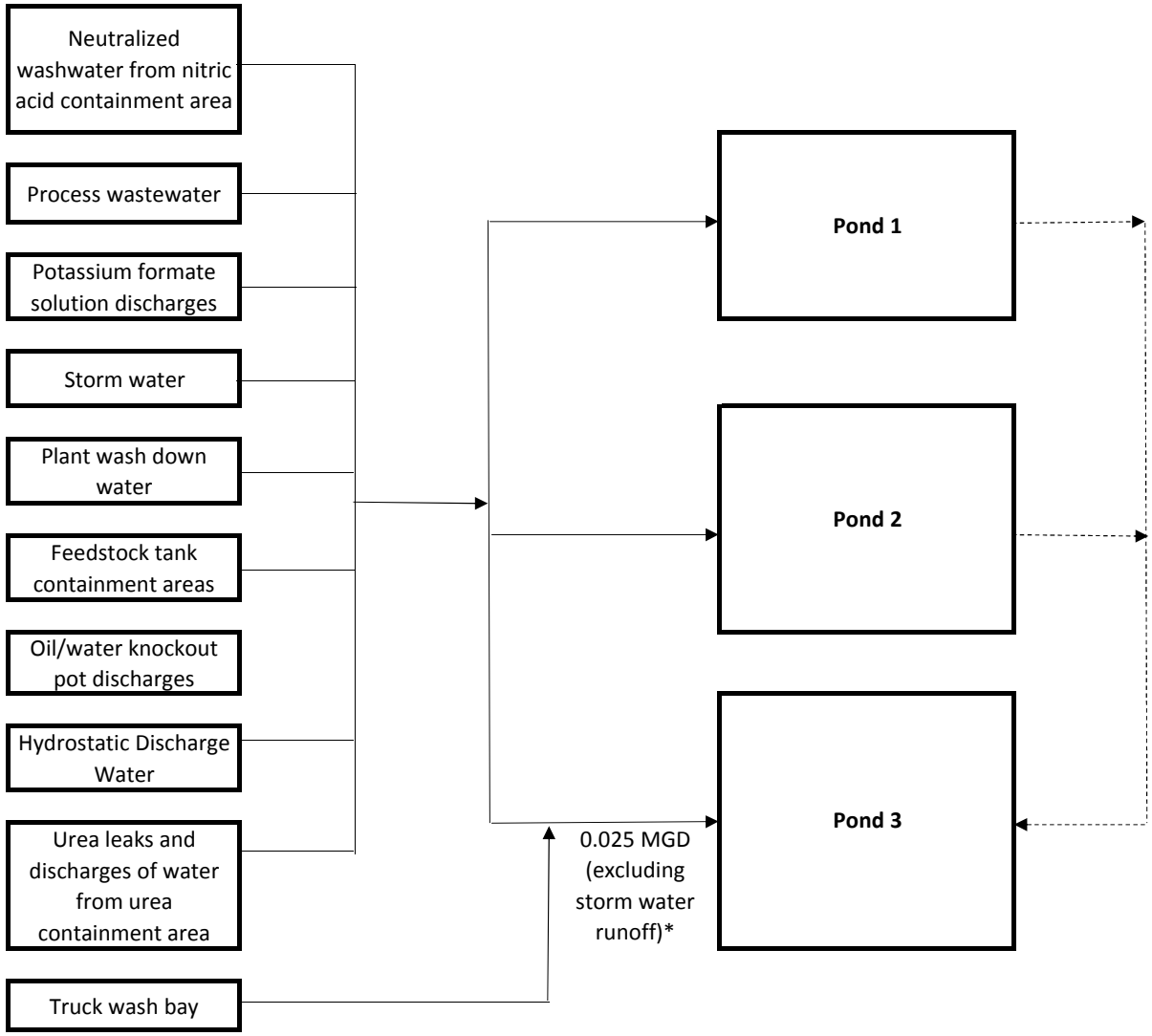
TPDES Industrial Wastewater Permit Renewal
Facility Map
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065

Job No.: 13898-00	1 IN = 250 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701

Attachment 2T
Water Balance Flow Schematic

Attachment 8T - Water Balance
Cabot Corporation Pampa Plant
TPDES Permit Renewal WQ0001442000



*The proposed max daily flow applies when the freeboard of Pond 3 is five feet or less.

Attachment 3T
SDS Information

TATA

TATA CHEMICALS (SODA ASH) PARTNERS

Material Safety Data Sheet – Sodium Carbonate, Anhydrous

Date Reviewed: January 2010 Supersedes: January, 2009

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the Canada's Workplace Hazards Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

1. Product and Company Identification

Product Name	Sodium Carbonate, Anhydrous
Alternate Product Name(s)	Soda Ash, Disodium Carbonate Also: Dense Soda Ash, Soda Ash Light, Synthetic Light Soda Ash, Soda Ash Liquid, Natural Light Soda Ash, Natural Light HA Soda Ash
Chemical Formula	Na_2CO_3
Product Use	Glass manufacture, detergent manufacture, sodium chemicals and carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or wastewater, flue gas desulphurization, coal treatment, ion exchange resin regeneration.
This chemical is certified to ANSI/NSF Standard 60, Drinking Water Chemicals – Health Effects (as packaged in the original, unopened container). Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.	
Manufacturer	Tata Chemicals North America 120 Eagle Rock Avenue East Hanover, NJ 07936 (973)
Emergency Telephone Numbers	(800) 424-9300 (CHEMTREC – US) (613) 996-6666 (CANUTEC – Canada) (307) 872- 3431 (Plant – Green River, WY)

2. Composition / Information on Ingredients

Chemical Name	CAS #	Wt. %	EC No.	EC Class
Sodium Carbonate	497-19-8	99.8	207-838-8	Xi, R36

3. Hazards Identification

Emergency Overview: White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. May irritate skin and eyes. Dusts may irritate respiratory tract. Not expected to be toxic to the environment, nor to aquatic organisms. Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

Potential Health Effects:

Skin	Prolonged contact may cause skin irritation (red, dry, cracked skin).
Eyes	Irritating to the eyes.
Ingestions	Although low in toxicity, ingestion may cause nausea, vomiting, stomach ache, and diarrhea.
Inhalation	Prolonged inhalation of product dusts may irritate nose, throat, and lungs.
Chronic Effects	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. First Aid Measures

Skin	Wash with plenty of soap and water. Get medical attention if irritation occurs and persists
Eyes	Immediately flush with water for at least 15 minutes lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.
Ingestions	Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a doctor or poison control center...
Inhalation	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.
Advice to Physician	While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

5. Fire Fighting Measures

Extinguishing Media:	Not combustible, use extinguishing method suitable for surrounding fire.
Fire/Explosion Hazards:	Not applicable.
Fire Fighting Procedures:	Wear full protective clothing and self-contained breathing apparatus
Flammable Limits:	Not applicable
Auto ignition Temperature:	Not applicable
Hazardous Combustion Products:	Carbon dioxide.
Sensitivity to Impact:	None
Sensitivity to Static Discharge:	None

6. Accidental Release Measures

Personal Precautions:	Refer to Section 8 "Exposure Controls / Personal Protection"
Containment:	Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.
Clean Up:	This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".
Notification Requirements:	Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

7. Handling and Storage

Handling:	Use air conveying / mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains. Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot. Use good personal hygiene and housekeeping.
Storage:	Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

8. Exposure Controls / Personal Protection

Engineering Controls:	Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment. Eye wash facility should be provided in storage and general work area.

Personal Protective Equipment:

Eyes and Face:	For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.
Respiratory:	Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Hands, Arms, and Body:	Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g., rubber, neoprene, etc.) gloves when handling solutions.

Exposure Guidelines: Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:
OSHA (PEL / TWA): 15 mg/m^3 (total dust); 5 mg/m^3 (rasp fraction)
MSHA (PEL / TWA): 10 mg/m^3 (total dust)

Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protective equipment (PPE).

9. Physical and Chemical Properties

Appearance:	White, granular solid
Odor:	Odorless
Formula:	Na_2CO_3
Molecular Weight:	
Bulk Density (g/l)	Dense grades: 0.9 – 1.1 Natural light grade: 0.7 – 0.9 Synthetic light grade: 0.5 – 0.7
Specific Gravity:	2.533 (vs. water)
Boiling Point:	Decomposes
Melting Point:	854°C (1569°F)
Evaporation Rate:	Not applicable
Percent Volatile:	0%
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable
pH (1% solution)	11.3
Flash Point	None

10. Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Contract with acids will release carbon dioxide, heat. Contract with lime dust in the presence of moisture can produce corrosive sodium hydroxide.
Materials to avoid	May react with aluminum, acids, fluorine, lithium, and 2,4,6-Trinitrotoluene.
Polymerization:	Will not occur.
Hazardous Decomposition	When heated to decomposition, carbon dioxide is released.

Products	
Other Precautions:	When dissolving, add to water cautiously and with stirring; solutions can get hot.

11. Toxicological Information

Eye:	Severe irritant (50 mg, rabbit).
Skin:	Mild irritant (500 mg/24hr, rabbit). Minor irritation may occur on abraded skin. Not a sensitizer (tested at 0.25% solution).
Oral:	LD_{50}, rat: 4,090 mg/kg
Inhalation:	LC_{50}, rat, 2hr 2.3 mg/l 24 – hour LC_{50}: 800 mg/m^3, 20 h exposure (guinea pig) (moderate toxicity)
Chronic:	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.
Carcinogenicity:	Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

12. Ecological Information

Acute ecotoxicity:	96 – hour LC_{50}: 265 – 565 mg/l (daphnia magnia) (low toxicity) 300 – 320 mg/l (blue gill sunfish) (low toxicity) 96 – hour TL_m: 1200 mg/l (mosquito-fish) 48 – hour TL_m: 840 mg/l (mosquito-fish) 48 – hour EC_{50}: 265 mg/l (daphnia magnia) 5 Day EC_{50}: 242 mg/l (Nitszcheria linearis)
Chronic ecotoxicity:	7 Day EC, biomass: 14 mg/l (phytoplankton)
Mobility:	Air: Not Applicable Water: Considerable solubility and mobility. Soil / sediments: Non-significant adsorption
Abiotic degradation:	Water (hydrolysis): degradation's products: carbonate (pH>10) / carbonic acid / carbon dioxide (pH<6). Soil: Hydrolysis as a function of pH.
Biotic degradation:	Aerobic / anaerobic: Not applicable (inorganic compound
Potential for bioaccumulation:	Not applicable (ionizable inorganic compound)

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

13. Disposal Considerations

Disposal	When this product is discarded or disposed of, as purchased, it is neither a

Method:	characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

14. Transportation Considerations

Proper Shipping Name:	Not regulated
Primary Hazard Class / Division:	Not regulated
UN / NA Number:	Not applicable
Label(s), Placard(s), Marking(s):	Not applicable
Reportable Quantity (RQ)	None
49 STCC Number:	Not Applicable
ADR (EU), TDG (Canada)	Not regulated
IMDG (sea) , ICAO (air), IATA (air)	Not regulated

15. Regulatory Information

UNITED STATES:

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances: 40CFR355, Appendix A	Not listed
Section 311 Hazard Class 40CFR370	Immediate (acute)
Section 312 Threshold Planning Quantity (TPQ) 40CFR370	No TPQ listed for sodium carbonate.
Section 313 Reportable Ingredients 40CFR372	Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):
40CFR302.4 –

There is no listed RQ (reportable quantity) for this product.

TSCA (Toxic Substance Control Act)

This product is listed on the TSCA Inventory of Chemical Substances. No other TSCA rules affect this product

State Regulations:

This product does not contain any components that are regulated under California Proposition 65.

Other:

Clean Water Act (CWA) – Section 301/ 311: Not listed
Clean Air Act (CAA) – Section 112: Not regulated

CANADA:

WHMIS Classification:	D2B Toxic Class E Corrosive Symbol:  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Ingredient Disclosure List	Listed
DSL Status (Domestic substances list)	Listed on DSL

EUROPEAN UNION:

EINECS Inventory	Listed: 207-838-8
Annex I (Substances Directive)	Listed: 011-005-00-2 Xi, R-36 (See label details in Section 16)
Greman Water Classificatin	hazard class 1, low hazard to waters
EU - Food Additives Directive (95/2/EC) - Annex I - Generally Permitted for Use in Foodstuff	E500

INTERNATIONAL:

This product is also found on the chemical inventories of Australia, China, Korea, Japan and the Philippines.

16. Other Information

HMIS (Hazardous Material Identification System)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	B

Protection = B (Safety glasses and gloves)
4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

NFPA (National Fire Protection Association System)

Health	2
Flammability	0
Reactivity	0
Special	None

4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

EC Labeling

Name of substance to appear on label.	Soduim Carbonate
Symbol(s)	Xi – irritating 
Label Phrases	R36: Irritating to eyes. S2: Keep out of reach of children. S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other Information: Soda ash is produced in three principal grades: Dense, natural light and synthetic light soda ash. When these products are mixed in water they may be known as liquid soda ash. These grades differ only in physical characteristics such as bulk density and size and shape of particles, which influence flow characteristics and angle of repose. Other physical properties, as well as chemical as chemical properties of solutions, are common to each grade of soda ash.

Certified to ANSI / NSF 60

Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 12/22/2000
MSDS No: M007
Liquid Caustic Soda

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Liquid Caustic Soda
Product Code: M007
Product Name: Sodium Hydroxide, 50%
Chemical Family: Alkali
Molecular Formula: NaOH
Generic Name: Liquid Causitc Soda, Lye, Lye Soda

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:
Emergency Contact: HydroChem ER
Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Sodium Hydroxide	50	1310-73-2
Water	50	7732 -18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	Supplier
Sodium Hydroxide	2 mg/m3	2 mg/m3 - STEL/ceiling	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:
Clear liquid

IMMEDIATE CONCERNS:
Corrosive.
May react violently with water.
Do not get in eyes, on skin or clothing.

MEDICAL CONDITIONS AGGRAVATED:
Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:
Ingestion, inhalation and eye or skin contact.

4. FIRST AID MEASURES

EYES:
Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:
Immediately wash with soap and water. Rinse for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.

INGESTION:
DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Take to hospital at once.

INHALATION:
If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not applicable
Autoignition Temperature: None

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

OTHER CONSIDERATIONS:
Large amounts of heat generated when initially diluted with water.

EXPLOSION HAZARDS:
May release hydrogen gas (explosive) when in contact with aluminum and similar metals.

FIRE FIGHTING EQUIPMENT:
As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Contain with dikes.
Dilute with water.
Neutralize with dilute acid or solid citric acid.
Put in plastic drums.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:
Refer to Section 8.

STORAGE:
Keep container tightly closed.
Store in corrosion proof area.
Isolate from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION
EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY:
Use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:
Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
pH: >13
Percent Volatile: 50
Boiling Point: 293°F 145°C
Melting Point: 54°F 12°C
Solubility in Water: Completely Miscible in All Proportions
Specific Gravity: 1.52 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
None

INCOMPATIBLE MATERIALS:
Aluminum, magnesium, water, organic materials, acids, copper, organic halogens, zinc, tin, bronze, brass

11. TOXICOLOGICAL INFORMATION

ACUTE
Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.
Skin: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.
Ingestion: Corrosive. Causes pain and severe burns to mouth, throat and stomach.
Inhalation: Corrosive. Short exposure can injure lungs, throat, mucous membranes and reduce lung capacity. Causes pain, burns, choking, and coughing.

TARGET ORGANS:
Not Determined

GENERAL COMMENTS:
Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: WB4905000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:
Degradability: Not biodegradable.
Fish Toxicity: Low toxicity to fish expected when neutralized.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:
Ship via permitted waste hauler to permitted hazardous waste disposal facility for chemical deactivation, solidification and landfilling (preferred) or disposal well injection. Neutralized material may be acceptable in sanitary sewers; check local regulations.

EMPTY CONTAINER:
Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:
RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:
Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Sodium Hydroxide Solution
Hazard Class: 8
NA/UN Number: UN1824
Packing Group: II
Reportable Quantity (RQ) Under CERCLA: 158 gal
Placards: Corrosive
Label: Corrosive - 8

SPECIAL SHIPPING NOTES:
Material is a HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE. Add the letters RQ to the beginning of the shipping description if the RQ amount is met or exceeded in a single container.

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard

DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 158 gal

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:
Biannual review

Approval date: 10/24/2000

REVISION SUMMARY
Revision #: 4

This MSDS replaces the August 28, 1998 MSDS. Any changes in information are as follows:
In Section 1
Reason for Issue Date Prepared

In Section 3
Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 5
Other Conditions

In Section 11
Target Organ

NFPA CODES
Fire: 0 Health: 3 Reactivity: 1

HMIS CODES
Fire: 0 Health: 3 Reactivity: 1

MANUFACTURER DISCLAIMER:
[™] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

BASF

The Chemical Company

Safety Data Sheet

Nitric Acid 65%

1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview

Corrosive, causes burns.
HARMFUL IF INHALED.
Harmful or fatal if swallowed.
Danger of serious damage to health by prolonged exposure.

Avoid inhalation of mists/vapours.
Do not get in eyes, on skin, or on clothing.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
After contact with skin, wash immediately with plenty of water.

State of matter: liquid
Colour: light yellow
Odour: pungent odour

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
The toxicity of the product is based on its corrosivity.

Irritation / corrosion:
Highly corrosive! Damages skin and eyes.

Sensitization:
No data available concerning sensitizing effects.

Chronic toxicity:

Carcinogenicity: No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: After repeated administration the prominent effect is the induction of corrosion.

Reproductive toxicity: No data available concerning reproduction toxicity. The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: No data was available concerning toxicity to development. The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The substance was not mutagenic in bacteria. The chemical structure does not suggest such an effect.

Signs and symptoms of overexposure:
irritates the eyes and respiratory tract, skin corrosion

Potential environmental effects

Aquatic toxicity:
[illegible] The ecotoxicological effects are solely caused by the pH.

Terrestrial toxicity:
Study not necessary due to exposure considerations.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
7697-37-2	65.0 %	Nitric acid
7732-18-5	35.0 %	Water

4. First-Aid Measures

General advice:
Take off immediately all contaminated clothing. First aid providers should wear personal protective equipment to prevent exposure.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water. Seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-Fighting Measures

Flash point:	Study scientifically not justified.
Autoignition:	Study scientifically not justified.
Lower explosion limit:	not applicable

Upper explosion limit: not applicable
Flammability: does not ignite
Self-ignition temperature: not self-igniting
Hazards during fire-fighting:
nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Keep containers cool by spraying with water if exposed to fire. Suppress gases/vapours/mists with water spray jet. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

Discharge into the environment must be avoided.

Cleanup:
For small amounts: Dilute with water. Neutralize with soda or slaked lime.
For large amounts: Pump off product. Place into suitable container for disposal.

7. Handling and Storage

Handling

General advice:
Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:
The product is incombustible. It can lower the ignition temperature of combustible substances. Store in a cool place. If heated the drums can burst due to pressure build-up.

Storage

General advice:
Protect against contamination. Protect from direct sunlight. Protect contents from the effects of light. Protect from atmospheric humidity. Do not keep the container sealed. Keep in a cool, well-ventilated place.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for lower concentrations or short-term effect: Wear a NIOSH-certified (or equivalent) acid gas respirator. Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Eye protection:
Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

Avoid contact with the skin, eyes and clothing. Do not breathe spray. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	pungent odour	
Colour:	light yellow	
pH value:	< 1	
Melting point:	-31 °C	Literature data.
Boiling point:	121 °C	(70 %(m)) Literature data.
Vapour pressure:	61 hPa	(20 °C) Literature data.
Density:	1.39 g/cm3	(20 °C) Literature data.
Relative density:		No data available.
Vapour density:		not applicable
n-octanol/water (log Pow):		
Viscosity, dynamic:	2 mPa.s	(20 °C) Literature data.
Particle size:		The substance / product is marketed or used in a non solid or granular form.
Solubility in water:	< 500 g/l	(20 °C) miscible
Miscibility with water:		(15 °C) completely (e.g. >=90%)
Molar mass:	63.01 g/mol	

10. Stability and Reactivity

Conditions to avoid:
Avoid heat. See MSDS section 7 - Handling and storage.

Substances to avoid:
flammable, oxidizable substances, base metals

Hazardous reactions:
Exothermic reaction. Reacts with reducing agents. Reacts with bases. Addition of water leads to increase in temperature. Can nitrate, oxidize and explode. Forms nitrous gases and hydrogen on action upon metals. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

Decomposition products:
Hazardous decomposition products: nitrogen oxides

Thermal decomposition:
No decomposition if correctly stored and handled. To avoid thermal decomposition, do not overheat.

Corrosion to metals:
Corrosive effect on metals.

Oxidizing properties:
Oxidizing.

11. Toxicological information

Acute toxicity

Oral:

Study does not need to be conducted.

Inhalation:
Type of value: LC50
Species: rat (male/female)
Value: 1.56 mg/l (OECD Guideline 403)
Exposure time: 4 h

Dermal:

Study does not need to be conducted.

Irritation / corrosion

Skin:

Study does not need to be conducted.

Eye:

Study does not need to be conducted.

Aspiration Hazard:

Study does not need to be conducted.

Other Information:

The toxicity of the product is based on its corrosivity. Inhalation of decomposition products can lead to lung oedema.

12. Ecological Information

Fish

Acute:
static
Salmo gairdneri, syn. O. mykiss/LC50 (96 h): 12.5 mg/l = pH 3,7
Literature data. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Chronic:

Study not necessary due to exposure considerations.

Aquatic invertebrates

Acute:
semistatic
Ceriodaphnia dubia/EC50 (48 h): pH 4,6
The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic plants

Toxicity to aquatic plants:

Study not necessary due to exposure considerations.

Microorganisms

Toxicity to microorganisms:

Study not necessary due to exposure considerations

Degradability / Persistence

Evaluation: Inorganic product which cannot be eliminated from water by biological purification processes.

Hydrolysis

Study scientifically not justified.

Bioaccumulation

Study scientifically not justified.

Environmental mobility:
Transport between environmental compartments:
adsorption/water - soil
Study scientifically not justified.

Other adverse effects:

Do not release untreated into natural waters. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations.

Container disposal:
WARNING: Empty containers may still contain hazardous residue. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers).

14. Transport Information

Land transport
USDOT

Hazard class:	8
Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Proper shipping name:	NITRIC ACID

Sea transport
IMDG

Hazard class:	8
Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Marine pollutant:	NO
Proper shipping name:	NITRIC ACID

Air transport
IATA/ICAO

Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Proper shipping name:	NITRIC ACID

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Not hazardous;

CERCLA RQ	CAS Number	Chemical name
1000 LBS		
1000 LBS		
100 LBS		
50 LBS		
1000 LBS		
100 LBS		
1000 LBS		

State regulations

State RTK	CAS Number	Chemical name
MA, NJ, PA	7697-37-2	Nitric acid

16. Other Information

Recommended use: inorganic acid Raw material initial product for chemical syntheses oxidizing agents

HMIS III rating
Health: 3 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com

MSDS Prepared on: 2011/06/27

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

Boiler House

U.S. WATER® SERVICES
Registered to ISO 9001
Setting A New Industry Standard.

Material Safety Data Sheet

Revision Date: 18-April-2014
Replaces: 4-October-2011

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (ChemTel)

Product/Chemical Name: **107 Calcium Buffer Solution**
(Product Numbers: 107-A, 107-B, 107-C, 107-E, 107-F, 107-G)

Product Description/Use: **Analytical Testing Reagent for Laboratory and Field Use**

Company:
U.S. Water Services
330 South Cleveland St
Cambridge, MN 55008

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	Wt %	NIOSH REL	OSHA PEL
Sodium Hydroxide	1310-73-2	<25%	2 mg/m^3	2 mg/m^3

*NE = "Not Established"

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Eye and Skin Contact, Inhalation, Ingestion

Acute Effects: Irritating to eyes and skin. Causes severe burns. May cause tissue damage with prolonged contact.

Eye: Causes irritation and burning sensation to eyes. May result in tissue damage and permanent eye injury if not removed promptly.
Skin: May cause irritation to skin, especially with prolonged or repeated contact. Chemical burns and/or tissue damage are possible with prolonged contact.
Inhalation: Inhalation of mist may cause irritation of nose, throat and upper respiratory tract.
Ingestion: May cause burning of the mouth, stomach, and throat, vomiting, bleeding, fall in blood pressure and diarrhea.
Carcinogenicity: No component of this product is listed as a known or suspected carcinogen by NTP, IARC, or OSHA.

HMIS		
Health	**3**	Moderate hazard
Flammability	**0**	Minimal hazard
Physical Hazard	**1**	Slight hazard
PPE	**C**	Goggles, gloves, apron

Medical Conditions Aggravated by Long-term Exposure: No information available.

Chronic Effects: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin Contact: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Section 5 - Fire-Fighting Measures

Flash Point: Not applicable
Burning Rate: Not applicable
Auto-ignition Temperature: Does not burn
LEL: No information available
UEL: No information available
Extinguishing Media: Material will not burn. Use extinguishing media appropriate for surrounding fire.
Unusual Fire or Explosion Hazards: Not considered to be a fire or explosion hazard.
Hazardous Combustion Products: Carbon monoxide may be released.
Fire-Fighting Instructions: Cool containers/exposed structures with water spray.
Fire-Fighting Equipment: Because thermal decomposition can lead to release of irritating gases and vapors, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures:
Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.
Large Spills: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent.
Cleanup: Accumulate the absorbed materials and dispose of according to federal, state and local regulations.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120)

Section 7 - Handling and Storage

Handling Precautions: Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. Do not mix with acids. For Industrial Use Only!

Storage Requirements: Keep away from children. Keep container tightly closed. Store as a corrosive. Protect from freezing and physical damage.

Regulatory Requirements: Store in properly labeled container in accordance with all local, state and federal guidelines. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls: Use under a fume hood. Ensure eyewash and safety showers are available.

Administrative Controls: No recommendations.

Respiratory Protection: Not required under normal use conditions. If needed, use MSHA/NIOSH approved respirator for vapors. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134).

Eye Protection: Wear chemical safety goggles or protective glasses with splash shields, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not recommended when handling any chemical product as they may trap chemicals that get in the eye, thus increasing the risk of eye damage.

Skin Protection: Wear chemically protective gloves and apron to prevent skin contact.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and personal protective equipment.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear, colorless
Odor: Odorless
Boiling Point: Approximately 100 °C (212 °F)
Freezing/Melting Point: Approximately 0 °C (32°F)
Specific Gravity (H_2O=1 at 4°C): Approximately 1

Water Solubility: Complete
Vapor Pressure: Not applicable
Vapor Density (Air=1): >1
% Volatile: No information available
PH: >12
Evaporation Rate: 1.00

Section 10 - Stability and Reactivity

Stability: Product stable under normal storage and use conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Acids, organic halogen compounds, metals such as aluminum, tin and zinc.

Conditions to Avoid: Incompatible materials, excess heat.

Hazardous Decomposition Products: Oxides of sodium. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Section 11 - Toxicological Information

Toxicity:

LD50 (rat):

Skin: 500 mg/24 hr
Eye: 50 µg/24 hr

Carcinogenicity: No carcinogenic effects are known for the components of this product.

Mutagenicity: No information available.

Teratogenicity: No information available.

Section 12 - Ecological Information

Aquatic Toxicity: Ceriodaphnia sp.: EC50 = 40 mg/l (Warne et al., 1999).

Bioaccumulation: Not determined

Environmental Degradation: Not determined

Soil Absorption/Mobility: No studies have been conducted for this product.

Section 13 - Disposal Considerations

Disposal: Neutralize with dilute acid solutions. All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Disposal Regulatory Requirements: Discarded product, as sold, is not considered a RCRA Hazardous Waste.

Container Cleaning and Disposal: Triple rinse the empty containers with water before disposal to re-conditioner or land fill or garbage. Review federal, state and local government requirements prior to disposal.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Sodium Hydroxide Solution
Hazard Class: 8
ID No.: UN 1824
Packing Group: II

Section 15 - Regulatory Information

EPA Regulations:
TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory
*Sodium hydroxide (1310732 <25%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA Hazardous Substance (40 CFR 302.4): Sodium Hydroxide
CERCLA Reportable Quantity (RQ): 1000 lb (454 kg)
SARA 313 Codes: This product does not contain chemicals subject to routine annual toxic chemical release reporting.
SARA Toxic Chemical: See CERCLA
OSHA Regulations:
Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A) See Section 2
OSHA Specifically Regulated Substance (29 CFR 1910.) See Section 2

Section 16 - Other Information

Prepared By: U.S. Water Services

Revision Notes: Additional product numbers listed

Disclaimer:

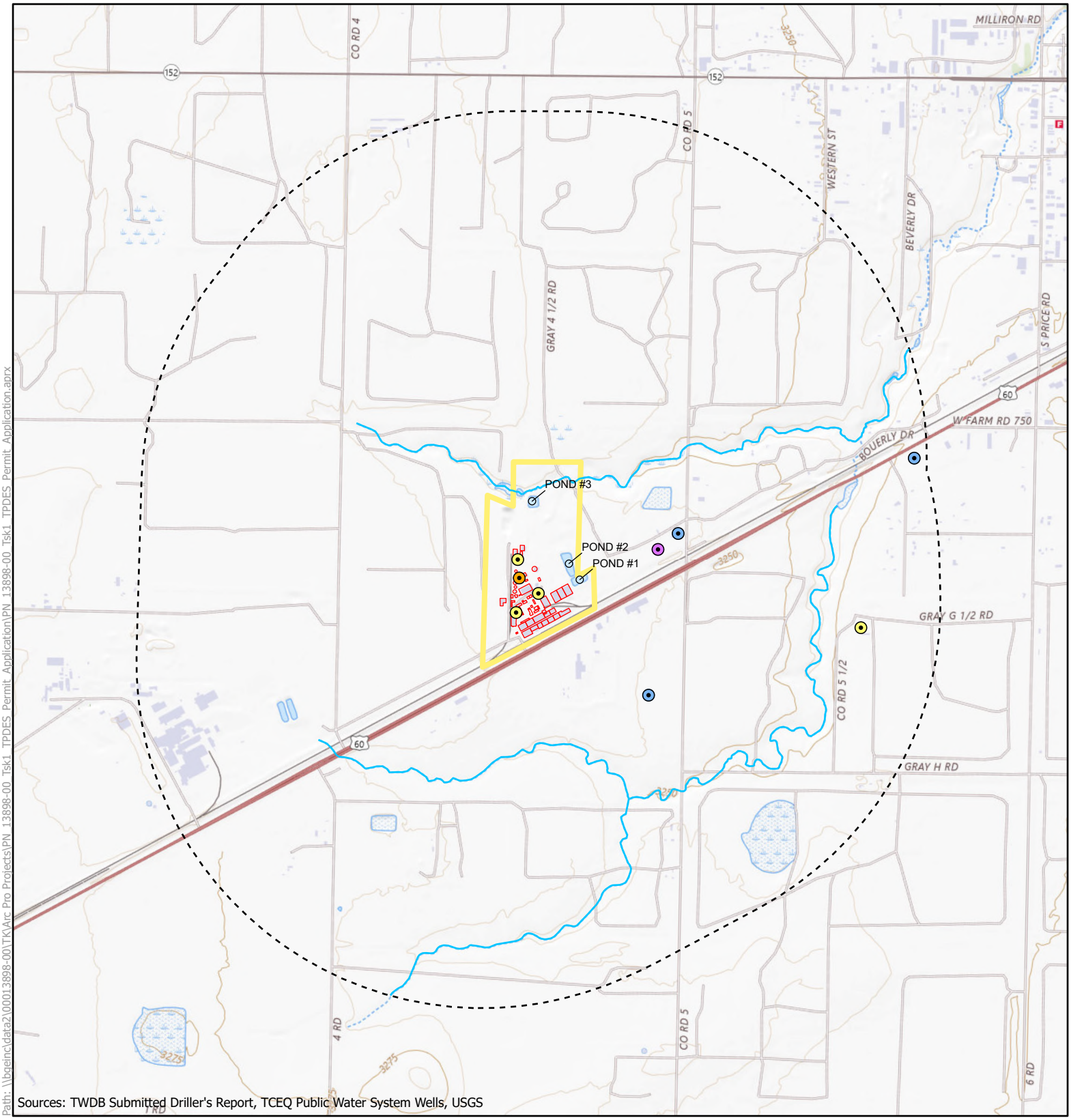
USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during storage, handling and use of the product. Each aspect of your operation should be examined to determine if additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

Attachment 4T
USGS Map with Well Locations



Path: \\bgeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: UTM
Zone: 14 North
Units: Meter
Basemap: USGS 7.5' Topographic Quadrangle Lake McConnell, TX & Kingsmill, TX (2022)

0 1,000 2,000 US Feet

0 500 Meters

- Domestic Water Wells Within 1 Mile
- Industrial Water Wells Within 1 Mile
- Monitoring Wells Within 1 Mile
- Public Water Storage Within 1 Mile
- Site Boundary
- 1 Mile Radius
- Building
- Intermittent Stream
- Water/Pond

TPDES Industrial Wastewater Permit Renewal
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701

Attachment 5T
Evaporation Pond Storage Calculations

Attachment
Cabot Corporation Pampa Plant
TPDES and Renewal WQ0001442000

Storage Calculation for Evaporation Ponds

Permitted Effluent Flow to Pond 3 = 0.025 MGD
Pond Surface Area = 0.703 acres
Pond Storage Volume = 3,346,000 gallons = 10.27 acre-feet

Critical Condition Evaluation

Month	No. of Days	Flow to Ponds	Evaporation Rate [1]	Evaporation Rate	Evaporation from Ponds	Storage Requirements
		(acre-feet)	(inches)	(feet)	(acre-feet)	(acre-feet)
January	31	2.378	2.27	0.19	0.133	2.245
February	28	2.148	3.59	0.30	0.210	1.938
March	31	2.378	5.14	0.43	0.301	2.077
April	30	2.301	4.50	0.38	0.264	2.038
May	31	2.378	6.17	0.51	0.361	2.017
June	30	2.301	6.62	0.55	0.388	1.913
July	31	2.378	7.44	0.62	0.436	1.942
August	31	2.378	7.11	0.59	0.417	1.961
September	30	2.301	6.93	0.58	0.406	1.895
October	31	2.378	3.36	0.28	0.197	2.181
November	30	2.301	2.90	0.24	0.170	2.131
December	31	2.378	2.84	0.24	0.166	2.212

[1] From TWDB, Quad 207, Lowest Net Evaporation for past 25 years (2004)

Attachment
Evaporation Pond Storage Calculations

Attachment
Cabot Corporation Pampa Plant
TPDES and Renewal WQ0001442000

Storage Calculation for Evaporation Ponds

Permitted Effluent Flow to Pond 3 = 0.025 MGD
Pond Surface Area = 0.703 acres
Pond Storage Volume = 3,346,000 gallons = 10.27 acre-feet

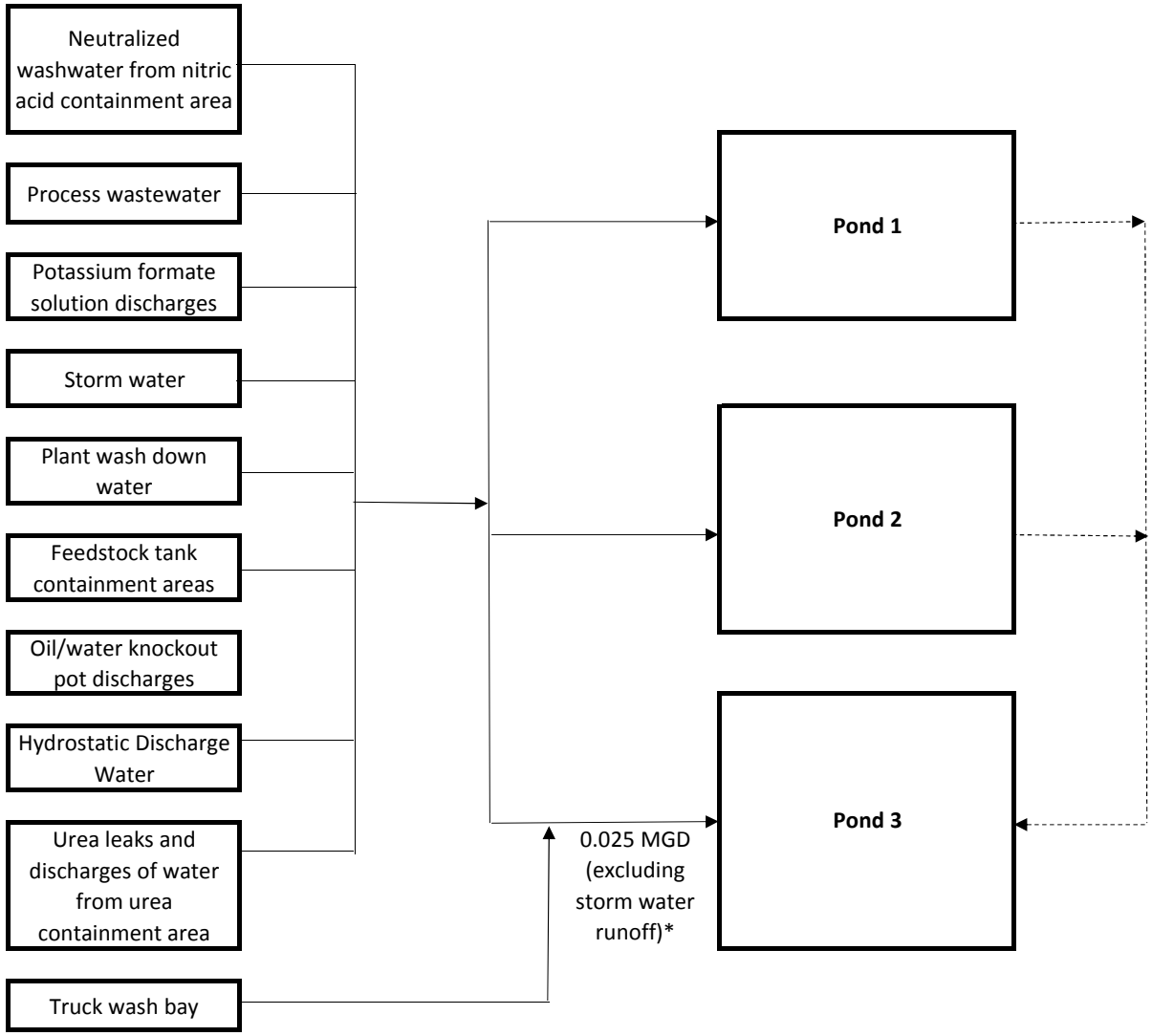
Critical Condition Evaluation

Month	No. of Days	Flow to Ponds	Evaporation Rate [1]	Evaporation Rate	Evaporation from Ponds	Storage Requirements
		(acre-feet)	(inches)	(feet)	(acre-feet)	(acre-feet)
January	31	2.378	2.27	0.19	0.133	2.245
February	28	2.148	3.59	0.30	0.210	1.938
March	31	2.378	5.14	0.43	0.301	2.077
April	30	2.301	4.50	0.38	0.264	2.038
May	31	2.378	6.17	0.51	0.361	2.017
June	30	2.301	6.62	0.55	0.388	1.913
July	31	2.378	7.44	0.62	0.436	1.942
August	31	2.378	7.11	0.59	0.417	1.961
September	30	2.301	6.93	0.58	0.406	1.895
October	31	2.378	3.36	0.28	0.197	2.181
November	30	2.301	2.90	0.24	0.170	2.131
December	31	2.378	2.84	0.24	0.166	2.212

[1] From TWDB, Quad 207, Lowest Net Evaporation for past 25 years (2004)

Attachment 8T
Water Balance Flow Schematic

Attachment 8T - Water Balance
Cabot Corporation Pampa Plant
TPDES Permit Renewal WQ0001442000



*The proposed max daily flow applies when the freeboard of Pond 3 is five feet or less.

Attachment 3T
Boiler Water Chemical Additive
SDS Information

TATA

TATA CHEMICALS (SODA ASH) PARTNERS

Material Safety Data Sheet – Sodium Carbonate, Anhydrous

Date Reviewed: January 2010 Supersedes: January, 2009

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the Canada's Workplace Hazards Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

1. Product and Company Identification

Product Name	Sodium Carbonate, Anhydrous
Alternate Product Name(s)	Soda Ash, Disodium Carbonate Also: Dense Soda Ash, Soda Ash Light, Synthetic Light Soda Ash, Soda Ash Liquid, Natural Light Soda Ash, Natural Light HA Soda Ash
Chemical Formula	Na_2CO_3
Product Use	Glass manufacture, detergent manufacture, sodium chemicals and carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or wastewater, flue gas desulphurization, coal treatment, ion exchange resin regeneration.
This chemical is certified to ANSI/NSF Standard 60, Drinking Water Chemicals – Health Effects (as packaged in the original, unopened container). Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.	
Manufacturer	Tata Chemicals North America 120 Eagle Rock Avenue East Hanover, NJ 07936 (973)
Emergency Telephone Numbers	(800) 424-9300 (CHEMTREC – US) (613) 996-6666 (CANUTEC – Canada) (307) 872- 3431 (Plant – Green River, WY)

2. Composition / Information on Ingredients

Chemical Name	CAS #	Wt. %	EC No.	EC Class
Sodium Carbonate	497-19-8	99.8	207-838-8	Xi, R36

3. Hazards Identification

Emergency Overview: White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. May irritate skin and eyes. Dusts may irritate respiratory tract. Not expected to be toxic to the environment, nor to aquatic organisms. Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

Potential Health Effects:

Skin	Prolonged contact may cause skin irritation (red, dry, cracked skin).
Eyes	Irritating to the eyes.
Ingestions	Although low in toxicity, ingestion may cause nausea, vomiting, stomach ache, and diarrhea.
Inhalation	Prolonged inhalation of product dusts may irritate nose, throat, and lungs.
Chronic Effects	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. First Aid Measures

Skin	Wash with plenty of soap and water. Get medical attention if irritation occurs and persists
Eyes	Immediately flush with water for at least 15 minutes lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.
Ingestions	Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a doctor or poison control center...
Inhalation	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.
Advice to Physician	While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

5. Fire Fighting Measures

Extinguishing Media:	Not combustible, use extinguishing method suitable for surrounding fire.
Fire/Explosion Hazards:	Not applicable.
Fire Fighting Procedures:	Wear full protective clothing and self-contained breathing apparatus
Flammable Limits:	Not applicable
Auto ignition Temperature:	Not applicable
Hazardous Combustion Products:	Carbon dioxide.
Sensitivity to Impact:	None
Sensitivity to Static Discharge:	None

6. Accidental Release Measures

Personal Precautions:	Refer to Section 8 "Exposure Controls / Personal Protection"
Containment:	Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.
Clean Up:	This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".
Notification Requirements:	Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

7. Handling and Storage

Handling:	Use air conveying / mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains. Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot. Use good personal hygiene and housekeeping.
Storage:	Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

8. Exposure Controls / Personal Protection

Engineering Controls:	Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment. Eye wash facility should be provided in storage and general work area.

Personal Protective Equipment:

Eyes and Face:	For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.
Respiratory:	Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Hands, Arms, and Body:	Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g., rubber, neoprene, etc.) gloves when handling solutions.

Exposure Guidelines: Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:
OSHA (PEL / TWA): 15 mg/m^3 (total dust); 5 mg/m^3 (rasp fraction)
MSHA (PEL / TWA): 10 mg/m^3 (total dust)

Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protective equipment (PPE).

9. Physical and Chemical Properties

Appearance:	White, granular solid
Odor:	Odorless
Formula:	Na_2CO_3
Molecular Weight:	
Bulk Density (g/l)	Dense grades: 0.9 – 1.1 Natural light grade: 0.7 – 0.9 Synthetic light grade: 0.5 – 0.7
Specific Gravity:	2.533 (vs. water)
Boiling Point:	Decomposes
Melting Point:	854°C (1569°F)
Evaporation Rate:	Not applicable
Percent Volatile:	0%
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable
pH (1% solution)	11.3
Flash Point	None

10. Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Contract with acids will release carbon dioxide, heat. Contract with lime dust in the presence of moisture can produce corrosive sodium hydroxide.
Materials to avoid	May react with aluminum, acids, fluorine, lithium, and 2,4,6-Trinitrotoluene.
Polymerization:	Will not occur.
Hazardous Decomposition	When heated to decomposition, carbon dioxide is released.

Products	
Other Precautions:	When dissolving, add to water cautiously and with stirring; solutions can get hot.

11. Toxicological Information

Eye:	Severe irritant (50 mg, rabbit).
Skin:	Mild irritant (500 mg/24hr, rabbit). Minor irritation may occur on abraded skin. Not a sensitizer (tested at 0.25% solution).
Oral:	LD_{50}, rat: 4,090 mg/kg
Inhalation:	LC_{50}, rat, 2hr 2.3 mg/l 24 – hour LC_{50}: 800 mg/m^3, 20 h exposure (guinea pig) (moderate toxicity)
Chronic:	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.
Carcinogenicity:	Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

12. Ecological Information

Acute ecotoxicity:	96 – hour LC_{50}: 265 – 565 mg/l (daphnia magnia) (low toxicity) 300 – 320 mg/l (blue gill sunfish) (low toxicity) 96 – hour TL_m: 1200 mg/l (mosquito-fish) 48 – hour TL_m: 840 mg/l (mosquito-fish) 48 – hour EC_{50}: 265 mg/l (daphnia magnia) 5 Day EC_{50}: 242 mg/l (Nitszcheria linearis)
Chronic ecotoxicity:	7 Day EC, biomass: 14 mg/l (phytoplankton)
Mobility:	Air: Not Applicable Water: Considerable solubility and mobility. Soil / sediments: Non-significant adsorption
Abiotic degradation:	Water (hydrolysis): degradation's products: carbonate (pH>10) / carbonic acid / carbon dioxide (pH<6). Soil: Hydrolysis as a function of pH.
Biotic degradation:	Aerobic / anaerobic: Not applicable (inorganic compound
Potential for bioaccumulation:	Not applicable (ionizable inorganic compound)

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

13. Disposal Considerations

Disposal	When this product is discarded or disposed of, as purchased, it is neither a

Method:	characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

14. Transportation Considerations

Proper Shipping Name:	Not regulated
Primary Hazard Class / Division:	Not regulated
UN / NA Number:	Not applicable
Label(s), Placard(s), Marking(s):	Not applicable
Reportable Quantity (RQ)	None
49 STCC Number:	Not Applicable
ADR (EU), TDG (Canada)	Not regulated
IMDG (sea) , ICAO (air), IATA (air)	Not regulated

15. Regulatory Information

UNITED STATES:

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances: 40CFR355, Appendix A	Not listed
Section 311 Hazard Class 40CFR370	Immediate (acute)
Section 312 Threshold Planning Quantity (TPQ) 40CFR370	No TPQ listed for sodium carbonate.
Section 313 Reportable Ingredients 40CFR372	Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):
40CFR302.4 –

There is no listed RQ (reportable quantity) for this product.

TSCA (Toxic Substance Control Act)

This product is listed on the TSCA Inventory of Chemical Substances. No other TSCA rules affect this product

State Regulations:

This product does not contain any components that are regulated under California Proposition 65.

Other:

Clean Water Act (CWA) – Section 301/ 311: Not listed
Clean Air Act (CAA) – Section 112: Not regulated

CANADA:

WHMIS Classification:	D2B Toxic Class E Corrosive Symbol:  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Ingredient Disclosure List	Listed
DSL Status (Domestic substances list)	Listed on DSL

EUROPEAN UNION:

EINECS Inventory	Listed: 207-838-8
Annex I (Substances Directive)	Listed: 011-005-00-2 Xi, R-36 (See label details in Section 16)
Greman Water Classificatin	hazard class 1, low hazard to waters
EU - Food Additives Directive (95/2/EC) - Annex I - Generally Permitted for Use in Foodstuff	E500

INTERNATIONAL:

This product is also found on the chemical inventories of Australia, China, Korea, Japan and the Philippines.

16. Other Information

HMIS (Hazardous Material Identification System)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	B

Protection = B (Safety glasses and gloves)
4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

NFPA (National Fire Protection Association System)

Health	2
Flammability	0
Reactivity	0
Special	None

4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

EC Labeling

Name of substance to appear on label.	Soduim Carbonate
Symbol(s)	Xi – irritating 
Label Phrases	R36: Irritating to eyes. S2: Keep out of reach of children. S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other Information: Soda ash is produced in three principal grades: Dense, natural light and synthetic light soda ash. When these products are mixed in water they may be known as liquid soda ash. These grades differ only in physical characteristics such as bulk density and size and shape of particles, which influence flow characteristics and angle of repose. Other physical properties, as well as chemical as chemical properties of solutions, are common to each grade of soda ash.

Certified to ANSI / NSF 60

Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 12/22/2000
MSDS No: M007
Liquid Caustic Soda

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Liquid Caustic Soda
Product Code: M007
Product Name: Sodium Hydroxide, 50%
Chemical Family: Alkali
Molecular Formula: NaOH
Generic Name: Liquid Causitc Soda, Lye, Lye Soda

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:
Emergency Contact: HydroChem ER
Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Sodium Hydroxide	50	1310-73-2
Water	50	7732 -18-5

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	EXPOSURE LIMITS		
	OSHA PEL	ACGIH TLV	Supplier
Sodium Hydroxide	2 mg/m3	2 mg/m3 - STEL/ceiling	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:
Clear liquid

IMMEDIATE CONCERNS:
Corrosive.
May react violently with water.
Do not get in eyes, on skin or clothing.

MEDICAL CONDITIONS AGGRAVATED:
Persons with pre-existing skin disorders, eye problems or impaired pulmonary function may be at increased risk from exposure.

ROUTES OF ENTRY:
Ingestion, inhalation and eye or skin contact.

4. FIRST AID MEASURES

EYES:
Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:
Immediately wash with soap and water. Rinse for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.

INGESTION:
DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Take to hospital at once.

INHALATION:
If effects occur, remove to fresh air. See a doctor at once. If breathing has stopped, begin artificial respiration.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not Applicable
Flammable Limits: Not applicable
Autoignition Temperature: None

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

OTHER CONSIDERATIONS:
Large amounts of heat generated when initially diluted with water.

EXPLOSION HAZARDS:
May release hydrogen gas (explosive) when in contact with aluminum and similar metals.

FIRE FIGHTING EQUIPMENT:
As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Contain with dikes.
Dilute with water.
Neutralize with dilute acid or solid citric acid.
Put in plastic drums.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:
Refer to Section 8.

STORAGE:
Keep container tightly closed.
Store in corrosion proof area.
Isolate from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION
EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY:
Use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:
Face shield, boots, protective suit and impervious (neoprene) gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
pH: >13
Percent Volatile: 50
Boiling Point: 293°F 145°C
Melting Point: 54°F 12°C
Solubility in Water: Completely Miscible in All Proportions
Specific Gravity: 1.52 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
None

INCOMPATIBLE MATERIALS:
Aluminum, magnesium, water, organic materials, acids, copper, organic halogens, zinc, tin, bronze, brass

11. TOXICOLOGICAL INFORMATION

ACUTE
Eyes: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.
Skin: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.
Ingestion: Corrosive. Causes pain and severe burns to mouth, throat and stomach.
Inhalation: Corrosive. Short exposure can injure lungs, throat, mucous membranes and reduce lung capacity. Causes pain, burns, choking, and coughing.

TARGET ORGANS:
Not Determined

GENERAL COMMENTS:
Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:
Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: WB4905000

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:
Degradability: Not biodegradable.
Fish Toxicity: Low toxicity to fish expected when neutralized.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:
Ship via permitted waste hauler to permitted hazardous waste disposal facility for chemical deactivation, solidification and landfilling (preferred) or disposal well injection. Neutralized material may be acceptable in sanitary sewers; check local regulations.

EMPTY CONTAINER:
Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:
RCRA Hazardous Waste Number: D002 (corrosive)

COMMENTS:
Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Sodium Hydroxide Solution
Hazard Class: 8
NA/UN Number: UN1824
Packing Group: II
Reportable Quantity (RQ) Under CERCLA: 158 gal
Placards: Corrosive
Label: Corrosive - 8

SPECIAL SHIPPING NOTES:
Material is a HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE. Add the letters RQ to the beginning of the shipping description if the RQ amount is met or exceeded in a single container.

15. REGULATORY INFORMATION

DOT Label Symbol and Statement of Hazard

DOT Corrosive

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: 158 gal

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS

PROPOSITION 65 STATEMENT:
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:
Biannual review

Approval date: 10/24/2000

REVISION SUMMARY
Revision #: 4

This MSDS replaces the August 28, 1998 MSDS. Any changes in information are as follows:
In Section 1
Reason for Issue Date Prepared

In Section 3
Physical Appearance Medical Conditions Aggravated Routes of Entry

In Section 5
Other Conditions

In Section 11
Target Organ

NFPA CODES
Fire: 0 Health: 3 Reactivity: 1

HMIS CODES
Fire: 0 Health: 3 Reactivity: 1

MANUFACTURER DISCLAIMER:
[™] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

BASF

The Chemical Company

Safety Data Sheet

Nitric Acid 65%

1. Product and Company Identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview

Corrosive, causes burns.
HARMFUL IF INHALED.
Harmful or fatal if swallowed.
Danger of serious damage to health by prolonged exposure.

Avoid inhalation of mists/vapours.
Do not get in eyes, on skin, or on clothing.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
After contact with skin, wash immediately with plenty of water.

State of matter: liquid
Colour: light yellow
Odour: pungent odour

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
The toxicity of the product is based on its corrosivity.

Irritation / corrosion:
Highly corrosive! Damages skin and eyes.

Sensitization:
No data available concerning sensitizing effects.

Chronic toxicity:

Carcinogenicity: No reliable data was available concerning carcinogenic activity. The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: After repeated administration the prominent effect is the induction of corrosion.

Reproductive toxicity: No data available concerning reproduction toxicity. The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: No data was available concerning toxicity to development. The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The substance was not mutagenic in bacteria. The chemical structure does not suggest such an effect.

Signs and symptoms of overexposure:
irritates the eyes and respiratory tract, skin corrosion

Potential environmental effects

Aquatic toxicity:
[illegible] The ecotoxicological effects are solely caused by the pH.

Terrestrial toxicity:
Study not necessary due to exposure considerations.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
7697-37-2	65.0 %	Nitric acid
7732-18-5	35.0 %	Water

4. First-Aid Measures

General advice:
Take off immediately all contaminated clothing. First aid providers should wear personal protective equipment to prevent exposure.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water. Seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-Fighting Measures

Flash point:	Study scientifically not justified.
Autoignition:	Study scientifically not justified.
Lower explosion limit:	not applicable

Upper explosion limit: not applicable
Flammability: does not ignite
Self-ignition temperature: not self-igniting
Hazards during fire-fighting:
nitrogen oxides
The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Keep containers cool by spraying with water if exposed to fire. Suppress gases/vapours/mists with water spray jet. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

Discharge into the environment must be avoided.

Cleanup:
For small amounts: Dilute with water. Neutralize with soda or slaked lime.
For large amounts: Pump off product. Place into suitable container for disposal.

7. Handling and Storage

Handling

General advice:
Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:
The product is incombustible. It can lower the ignition temperature of combustible substances. Store in a cool place. If heated the drums can burst due to pressure build-up.

Storage

General advice:
Protect against contamination. Protect from direct sunlight. Protect contents from the effects of light. Protect from atmospheric humidity. Do not keep the container sealed. Keep in a cool, well-ventilated place.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for lower concentrations or short-term effect: Wear a NIOSH-certified (or equivalent) acid gas respirator. Suitable respiratory protection for higher concentrations or long-term effect: Self-contained breathing apparatus. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Eye protection:
Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

Avoid contact with the skin, eyes and clothing. Do not breathe spray. Take off immediately all contaminated clothing. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	pungent odour	
Colour:	light yellow	
pH value:	< 1	
Melting point:	-31 °C	Literature data.
Boiling point:	121 °C	(70 %(m)) Literature data.
Vapour pressure:	61 hPa	(20 °C) Literature data.
Density:	1.39 g/cm3	(20 °C) Literature data.
Relative density:		No data available.
Vapour density:		not applicable
n-octanol/water (log Pow):		
Viscosity, dynamic:	2 mPa.s	(20 °C) Literature data.
Particle size:		The substance / product is marketed or used in a non solid or granular form.
Solubility in water:	< 500 g/l	(20 °C) miscible
Miscibility with water:		(15 °C) completely (e.g. >=90%)
Molar mass:	63.01 g/mol	

10. Stability and Reactivity

Conditions to avoid:
Avoid heat. See MSDS section 7 - Handling and storage.

Substances to avoid:
flammable, oxidizable substances, base metals

Hazardous reactions:
Exothermic reaction. Reacts with reducing agents. Reacts with bases. Addition of water leads to increase in temperature. Can nitrate, oxidize and explode. Forms nitrous gases and hydrogen on action upon metals. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

Decomposition products:
Hazardous decomposition products: nitrogen oxides

Thermal decomposition:
No decomposition if correctly stored and handled. To avoid thermal decomposition, do not overheat.

Corrosion to metals:
Corrosive effect on metals.

Oxidizing properties:
Oxidizing.

11. Toxicological information

Acute toxicity

Oral:

Study does not need to be conducted.

Inhalation:
Type of value: LC50
Species: rat (male/female)
Value: 1.56 mg/l (OECD Guideline 403)
Exposure time: 4 h

Dermal:

Study does not need to be conducted.

Irritation / corrosion

Skin:

Study does not need to be conducted.

Eye:

Study does not need to be conducted.

Aspiration Hazard:

Study does not need to be conducted.

Other Information:

The toxicity of the product is based on its corrosivity. Inhalation of decomposition products can lead to lung oedema.

12. Ecological Information

Fish

Acute:
static
Salmo gairdneri, syn. O. mykiss/LC50 (96 h): 12.5 mg/l = pH 3,7
Literature data. The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Chronic:

Study not necessary due to exposure considerations.

Aquatic invertebrates

Acute:
semistatic
Ceriodaphnia dubia/EC50 (48 h): pH 4,6
The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Aquatic plants

Toxicity to aquatic plants:

Study not necessary due to exposure considerations.

Microorganisms

Toxicity to microorganisms:

Study not necessary due to exposure considerations

Degradability / Persistence

Evaluation: Inorganic product which cannot be eliminated from water by biological purification processes.

Hydrolysis

Study scientifically not justified.

Bioaccumulation

Study scientifically not justified.

Environmental mobility:
Transport between environmental compartments:
adsorption/water - soil
Study scientifically not justified.

Other adverse effects:

Do not release untreated into natural waters. Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations.

Container disposal:
WARNING: Empty containers may still contain hazardous residue. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers).

14. Transport Information

Land transport
USDOT

Hazard class:	8
Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Proper shipping name:	NITRIC ACID

Sea transport
IMDG

Hazard class:	8
Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Marine pollutant:	NO
Proper shipping name:	NITRIC ACID

Air transport
IATA/ICAO

Packing group:	II
ID number:	UN 2031
Hazard label:	8, 5.1
Proper shipping name:	NITRIC ACID

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Not hazardous;

CERCLA RQ	CAS Number	Chemical name
1000 LBS		
1000 LBS		
100 LBS		
50 LBS		
1000 LBS		
100 LBS		
1000 LBS		

State regulations

State RTK	CAS Number	Chemical name
MA, NJ, PA	7697-37-2	Nitric acid

16. Other Information

Recommended use: inorganic acid Raw material initial product for chemical syntheses oxidizing agents

HMIS III rating
Health: 3 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com

MSDS Prepared on: 2011/06/27

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET

Boiler House

U.S. WATER® SERVICES
Registered to ISO 9001
Setting A New Industry Standard.

Material Safety Data Sheet

Revision Date: 18-April-2014
Replaces: 4-October-2011

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (ChemTel)

Product/Chemical Name: **107 Calcium Buffer Solution**
(Product Numbers: 107-A, 107-B, 107-C, 107-E, 107-F, 107-G)

Product Description/Use: **Analytical Testing Reagent for Laboratory and Field Use**

Company:
U.S. Water Services
330 South Cleveland St
Cambridge, MN 55008

Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	Wt %	NIOSH REL	OSHA PEL
Sodium Hydroxide	1310-73-2	<25%	2 mg/m^3	2 mg/m^3

*NE = "Not Established"

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Eye and Skin Contact, Inhalation, Ingestion

Acute Effects: Irritating to eyes and skin. Causes severe burns. May cause tissue damage with prolonged contact.

Eye: Causes irritation and burning sensation to eyes. May result in tissue damage and permanent eye injury if not removed promptly.
Skin: May cause irritation to skin, especially with prolonged or repeated contact. Chemical burns and/or tissue damage are possible with prolonged contact.
Inhalation: Inhalation of mist may cause irritation of nose, throat and upper respiratory tract.
Ingestion: May cause burning of the mouth, stomach, and throat, vomiting, bleeding, fall in blood pressure and diarrhea.
Carcinogenicity: No component of this product is listed as a known or suspected carcinogen by NTP, IARC, or OSHA.

HMIS		
Health	**3**	Moderate hazard
Flammability	**0**	Minimal hazard
Physical Hazard	**1**	Slight hazard
PPE	**C**	Goggles, gloves, apron

Medical Conditions Aggravated by Long-term Exposure: No information available.

Chronic Effects: Prolonged or repeated skin contact may cause dermatitis.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin Contact: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Ingestion: DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Section 5 - Fire-Fighting Measures

Flash Point: Not applicable
Burning Rate: Not applicable
Auto-ignition Temperature: Does not burn
LEL: No information available
UEL: No information available
Extinguishing Media: Material will not burn. Use extinguishing media appropriate for surrounding fire.
Unusual Fire or Explosion Hazards: Not considered to be a fire or explosion hazard.
Hazardous Combustion Products: Carbon monoxide may be released.
Fire-Fighting Instructions: Cool containers/exposed structures with water spray.
Fire-Fighting Equipment: Because thermal decomposition can lead to release of irritating gases and vapors, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures:
Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.
Large Spills: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill with vermiculite, oil dry or similar non-reactant absorbent.
Cleanup: Accumulate the absorbed materials and dispose of according to federal, state and local regulations.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120)

Section 7 - Handling and Storage

Handling Precautions: Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. Do not mix with acids. For Industrial Use Only!

Storage Requirements: Keep away from children. Keep container tightly closed. Store as a corrosive. Protect from freezing and physical damage.

Regulatory Requirements: Store in properly labeled container in accordance with all local, state and federal guidelines. Do not store this material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls: Use under a fume hood. Ensure eyewash and safety showers are available.

Administrative Controls: No recommendations.

Respiratory Protection: Not required under normal use conditions. If needed, use MSHA/NIOSH approved respirator for vapors. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134).

Eye Protection: Wear chemical safety goggles or protective glasses with splash shields, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not recommended when handling any chemical product as they may trap chemicals that get in the eye, thus increasing the risk of eye damage.

Skin Protection: Wear chemically protective gloves and apron to prevent skin contact.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and personal protective equipment.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear, colorless
Odor: Odorless
Boiling Point: Approximately 100 °C (212 °F)
Freezing/Melting Point: Approximately 0 °C (32°F)
Specific Gravity (H_2O=1 at 4°C): Approximately 1

Water Solubility: Complete
Vapor Pressure: Not applicable
Vapor Density (Air=1): >1
% Volatile: No information available
PH: >12
Evaporation Rate: 1.00

Section 10 - Stability and Reactivity

Stability: Product stable under normal storage and use conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Acids, organic halogen compounds, metals such as aluminum, tin and zinc.

Conditions to Avoid: Incompatible materials, excess heat.

Hazardous Decomposition Products: Oxides of sodium. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Section 11 - Toxicological Information

Toxicity:

LD50 (rat):

Skin: 500 mg/24 hr
Eye: 50 µg/24 hr

Carcinogenicity: No carcinogenic effects are known for the components of this product.

Mutagenicity: No information available.

Teratogenicity: No information available.

Section 12 - Ecological Information

Aquatic Toxicity: Ceriodaphnia sp.: EC50 = 40 mg/l (Warne et al., 1999).

Bioaccumulation: Not determined

Environmental Degradation: Not determined

Soil Absorption/Mobility: No studies have been conducted for this product.

Section 13 - Disposal Considerations

Disposal: Neutralize with dilute acid solutions. All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Disposal Regulatory Requirements: Discarded product, as sold, is not considered a RCRA Hazardous Waste.

Container Cleaning and Disposal: Triple rinse the empty containers with water before disposal to re-conditioner or land fill or garbage. Review federal, state and local government requirements prior to disposal.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Sodium Hydroxide Solution
Hazard Class: 8
ID No.: UN 1824
Packing Group: II

Section 15 - Regulatory Information

EPA Regulations:
TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory
*Sodium hydroxide (1310732 <25%) CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR
REGULATORY KEY DESCRIPTIONS

TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
TXAIR = TX Air Contaminants with Health Effects Screening Level

CERCLA Hazardous Substance (40 CFR 302.4): Sodium Hydroxide
CERCLA Reportable Quantity (RQ): 1000 lb (454 kg)
SARA 313 Codes: This product does not contain chemicals subject to routine annual toxic chemical release reporting.
SARA Toxic Chemical: See CERCLA
OSHA Regulations:
Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A) See Section 2
OSHA Specifically Regulated Substance (29 CFR 1910.) See Section 2

Section 16 - Other Information

Prepared By: U.S. Water Services

Revision Notes: Additional product numbers listed

Disclaimer:

USER'S RESPONSIBILITY

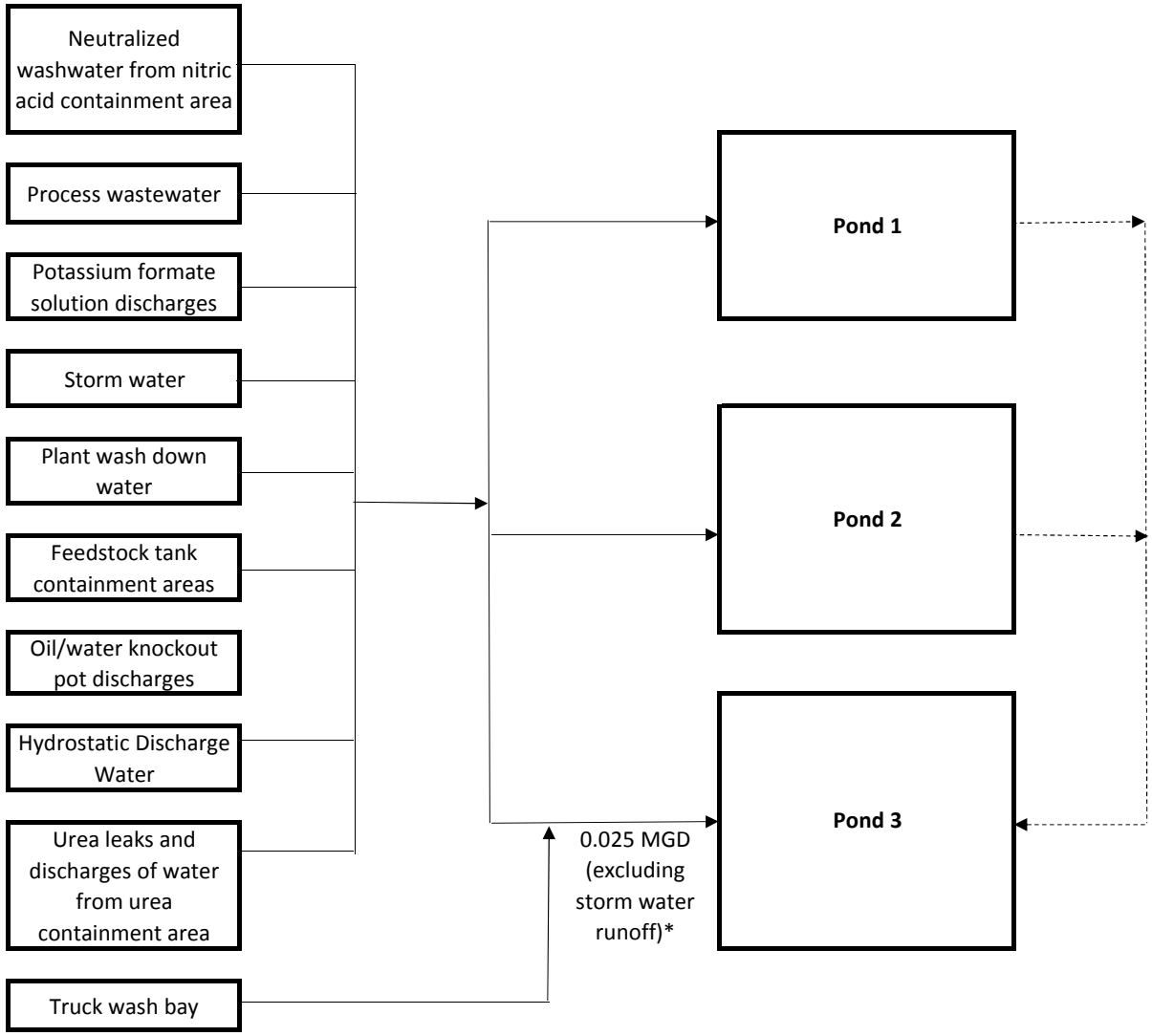
The information and recommendations contained herein cannot cover all possible situations which the user may experience during storage, handling and use of the product. Each aspect of your operation should be examined to determine if additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.

Attachment 8T
Water Balance Flow Schematic

Attachment 8T - Water Balance
Cabot Corporation Pampa Plant
TPDES Permit Renewal WQ0001442000



*The proposed max daily flow applies when the freeboard of Pond 3 is five feet or less.

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

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

Transaction Information

Trace Number: 582EA000647471
Date: 01/29/2025 09:55 AM
Payment Method: CC - Authorization 0000029287
ePay Actor: JEFF ROBERTSON
Actor Email: jeff.robertson@cabotcorp.com
IP: 12.25.1.164
TCEQ Amount: $1,215.00
Texas.gov Price: $1,242.59*

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

Payment Contact Information

Name: JEFF ROBERTSON
Company: CABOT
Address: 11561 US HWY 60, PAMPA, TX 79066
Phone: 806-661-3107

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
744934	WW PERMIT - FACILITY WITH FLOW >= .25 & < .50 MGD - RENEWAL		$1,200.00
744935	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	$1,215.00

ePay Again | Exit ePay

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

Candice Calhoun

From: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Sent: Monday, February 24, 2025 3:00 PM
To: Candice Calhoun
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Attachments: USGS Topographic Map Attachment 3A.pdf; USGS Quadrangle Map Attachment 5A.pdf

Good Afternoon, Candice –

I have attached the USGS maps that were prepared for this application. The yellow boundary is the site/facility boundary. Do we simply need to rename that "facility boundary" instead of "site boundary". The ponds are where the waste water discharges to and then the water evaporates from these ponds. Do we need to add a secondary label of "waste disposal area" to the figures? There is no other "waste disposal" associated with this permit renewal.

Thank you for your help in making sure we get the correct figures to you for this renewal application.

We are also working on the other items you listed in the NOD.

Cydney Schwarzlose
BGE, Inc.
512.810.8314 p
512.262.8766 m

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, February 24, 2025 2:21 PM
To: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Cc: jeff.robertson@cabotcorp.com
Subject: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Importance: High

Good afternoon, Ms. Schwarzlose,

The attached Notice of Deficiency (NOD) letter dated February 24, 2025, requests additional information needed to declare the application administratively complete. Please send complete response by March 10, 2025.

Please let me know if you have any questions.

Regards,

Candice Calhoun

From: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Sent: Monday, February 24, 2025 3:36 PM
To: Candice Calhoun
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Attachments: Copy Of Record - Texas Commission on Environmental Quality - www.tceq.texas.pdf

Good Afternoon, Candice –

I see that I incorrectly listed Jeff Robertson as the Responsible Authority Contact. It should have been Chad Clements who did sign the STEERS entry. Can you provide us guidance on how to correct this issue?

Cydney Schwarzlose
BGE, Inc.
512.810.8314 p
512.262.8766 m

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, February 24, 2025 2:21 PM
To: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Cc: jeff.robertson@cabotcorp.com
Subject: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Importance: High

Good afternoon, Ms. Schwarzlose,

The attached Notice of Deficiency (NOD) letter dated February 24, 2025, requests additional information needed to declare the application administratively complete. Please send complete response by March 10, 2025.

Please let me know if you have any questions.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

Candice Calhoun

From: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Sent: Thursday, February 27, 2025 11:43 AM
To: Candice Calhoun
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Attachments: USGS Topographic Map Attachment 3A-updated.pdf; Item 2 - Applicant Information.pdf; USGS Map with Well Locations Attachment 4T-updated.pdf; USGS Quadrangle Map Attachment 5A-updated.pdf

Good Morning, Candice –

We have attached the updated USGS figures (Attachment 3A, 5A, and 4T) with the updated labels to show the site boundary/applicant boundary are the same.

Additionally, I have included Item 2 – Applicant Information to show Chad Clements as the Responsible Contact.

I have a question about the issues with the location in the Plain Language Summary. 11561 US Highway 60 Pampa, TX is the physical address for the site/facility/applicant property where they accept deliveries/access to the property. Do we need to change this to match the Location information that is in the existing permit which reads:

"The facility is located just north of U.S. Highway 60 and the Burlington Northern Santa Fe Railroad Tracks; three miles west of the City of Pamp, in Gray County, Texas 79065."

Cydney Schwarzlose
BGE, Inc.
512.810.8314 p
512.262.8766 m

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, February 27, 2025 7:42 AM
To: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla <Micah.Bonilla@cabotcorp.com>
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)

Good morning, Ms. Schwarzlose,

Thank you.

Regarding the site boundaries, I do see those on this map however I do not see the applicant's property boundary. If the site/facility boundary and the applicant's boundary are the same, please label it as site(or facility)/applicant boundaries.

Regarding the ponds, this part is sufficient and is fine how it is.

Please let me know if you have any additional questions.

Candice Calhoun

From: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Sent: Monday, March 10, 2025 4:18 PM
To: Candice Calhoun
Cc: Jeff Robertson; Micah Bonilla
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Attachments: Industrial Disposal Renewal Spanish NORI-03102025.docx

Good Afternoon, Candice –

We have no edits to the NORI language that was attached and have provided the Spanish Language NORI as requested.

All other questions have been responded to in prior emails, so please let us know if there is something else we still need to finalize from the NOD.

Thank you-
Cydney

Cydney Schwarzlose
BGE, Inc.
512.810.8314 p
512.262.8766 m

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, February 24, 2025 2:21 PM
To: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Cc: jeff.robertson@cabotcorp.com
Subject: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Importance: High

Good afternoon, Ms. Schwarzlose,

The attached Notice of Deficiency (NOD) letter dated February 24, 2025, requests additional information needed to declare the application administratively complete. Please send complete response by March 10, 2025.

Please let me know if you have any questions.

Regards,

Candice Calhoun

From: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Sent: Monday, March 10, 2025 4:22 PM
To: Candice Calhoun
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)
Attachments: Attachment 2A_Plain Language Summary-updated 03102025.docx

Good Afternoon, Candice –

We discovered that the 911 address is 11659 US Highway 60. We have updated the PLS to include this address along with the description of the location that you provided below in both the English and Spanish versions. Please let us know if you have any other questions/revisions needed.

Cydney Schwarzlose
BGE, Inc.
512.810.8314 p
512.262.8766 m

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, February 28, 2025 3:42 PM
To: Cydney Schwarzlose <CSchwarzlose@bgeinc.com>
Cc: jeff.robertson@cabotcorp.com; Micah Bonilla <Micah.Bonilla@cabotcorp.com>
Subject: RE: Application to Renew Permit No. WQ0001442000 - Notice of Deficiency (NOD)

Good afternoon, Ms. Schwarzlose,

Thank you, the USGS maps and updated applicant information provided is sufficient.

Regarding your question on the PLS', the application showed a description of "approximately 2.7 miles southwest of the intersection of State Highway 70 and U.S. Highway 60" as well as showed a physical address of "11561 U.S. Highway 60, Pampa, Texas 79065". However, the physical address does not match to the site coordinates as well as did not look to have the same entry point. Is this physical address a 911 assigned address?

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

Cabot Corporation (CN600124911) operates Pampa Plant (RN100221761), a carbon black manufacturing facility. The facility is located at 11569 US Highway 60, in Pampa, Gray County, Texas 79065 which is approximately 2.7 miles southwest of the intersection of State Highway 70 and and U.S. Highway 60. The applicant requests to renew the current permit without changes.

Discharges from this facility are not expected to contain any pollutants. Wastewater treatment at the facility involves collecting nitric acid wash water from the outside of the tanks and within the containment area in a sump and neutralizing using soda ash. The neutralized water is pumped from the sump to Pond 1. Water in the ponds is neutralized as needed with muriatic acid to maintain the pH.

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

AGUAS RESIDUALES INDUSTRIALES /AGUAS PLUVIALES

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

Cabot Corporation (CN600124911) opera Pampa Plant (RN100221761), un planta de fabricación de negro de carbono. La instalación está ubicada en 11569 US Highway 60, en Pampa, Condado de Gray, Texas 79065 que está aproximadamente a 2.7 millas al suroeste de la intersección de la autopista estatal 70 y la autopista U.S. Highway 60. El solicitante solicita la renovación del permiso actual sin cambios.

No se espera que las descargas de esta instalación contengan contaminantes. Tratamiento de aguas residuales en la instalación consiste en recolectar agua de lavado con ácido nítrico del exterior de los tanques y dentro del área de contención en un sumidero y neutralización con carbonato de sodio. El agua neutralizada se bombea desde el sumidero hasta el estanque 1. El agua de los estanques se neutraliza según sea necesario con ácido muriático para mantener el pH.

g. Application Fee

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

h. Payment Information

Mailed

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

Check or money order amt.: Click to enter text.

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

Epay

Voucher number: 582EA000647471

Copy of voucher attachment: Attachment 1A

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600124911

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: Cabot Corporation

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

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

Prefix: Mr. Full Name (Last/First Name): Chad Clements

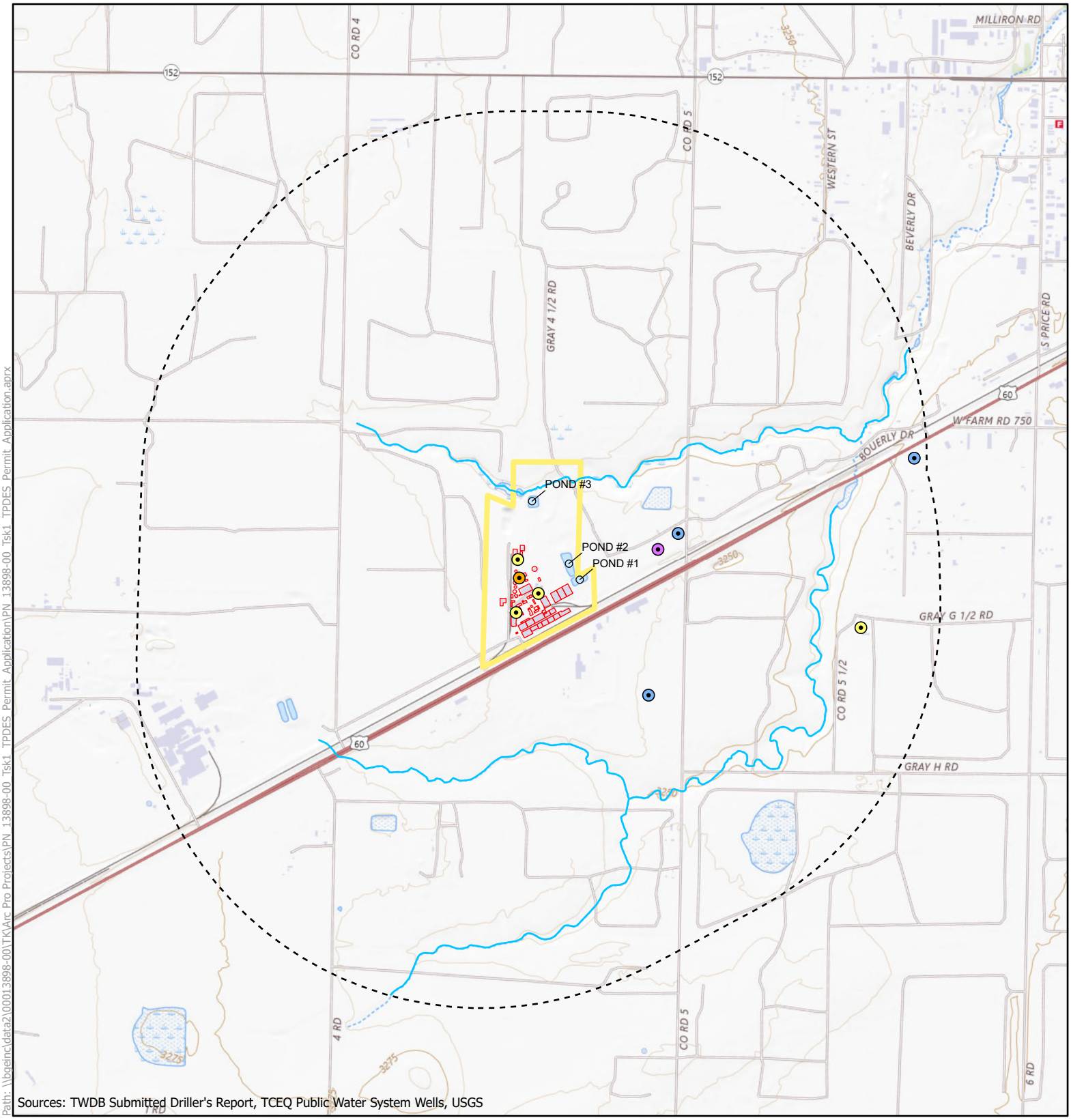
Title: Facility General Manager Credential: Click to enter text.

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

☒ Yes ☐ No

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

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



Path: \\bgeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: UTM
Zone: 14 North
Units: Meter
Basemap: USGS 7.5' Topographic Quadrangle Lake McConnell, TX & Kingsmill, TX (2022)

0 1,000 2,000 US Feet

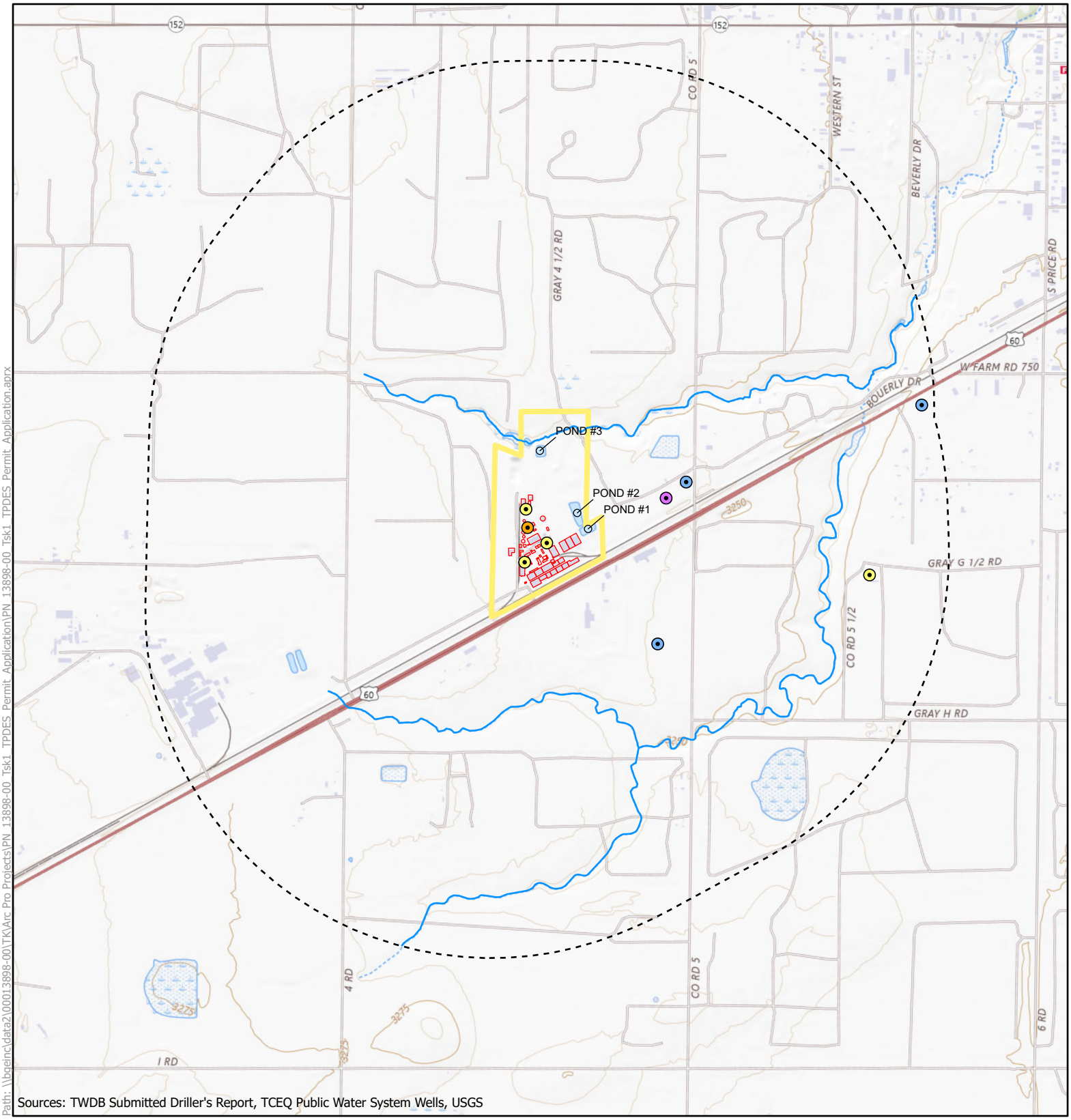
0 500 Meters

- Domestic Water Wells Within 1 Mile
- Industrial Water Wells Within 1 Mile
- Monitoring Wells Within 1 Mile
- Public Water Storage Within 1 Mile
- Site Boundary/Applicant Boundary
- 1 Mile Radius
- Building
- Intermittent Stream
- Water/Pond

TPDES Industrial Wastewater Permit Renewal
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701



Path: \\bgeinc\data2\00013898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: UTM
Zone: 14 North
Units: Meter
Basemap: USGS 7.5' Topographic Quadrangle Lake McConnell, TX & Kingsmill, TX (2022)

0 1,000 2,000 US Feet

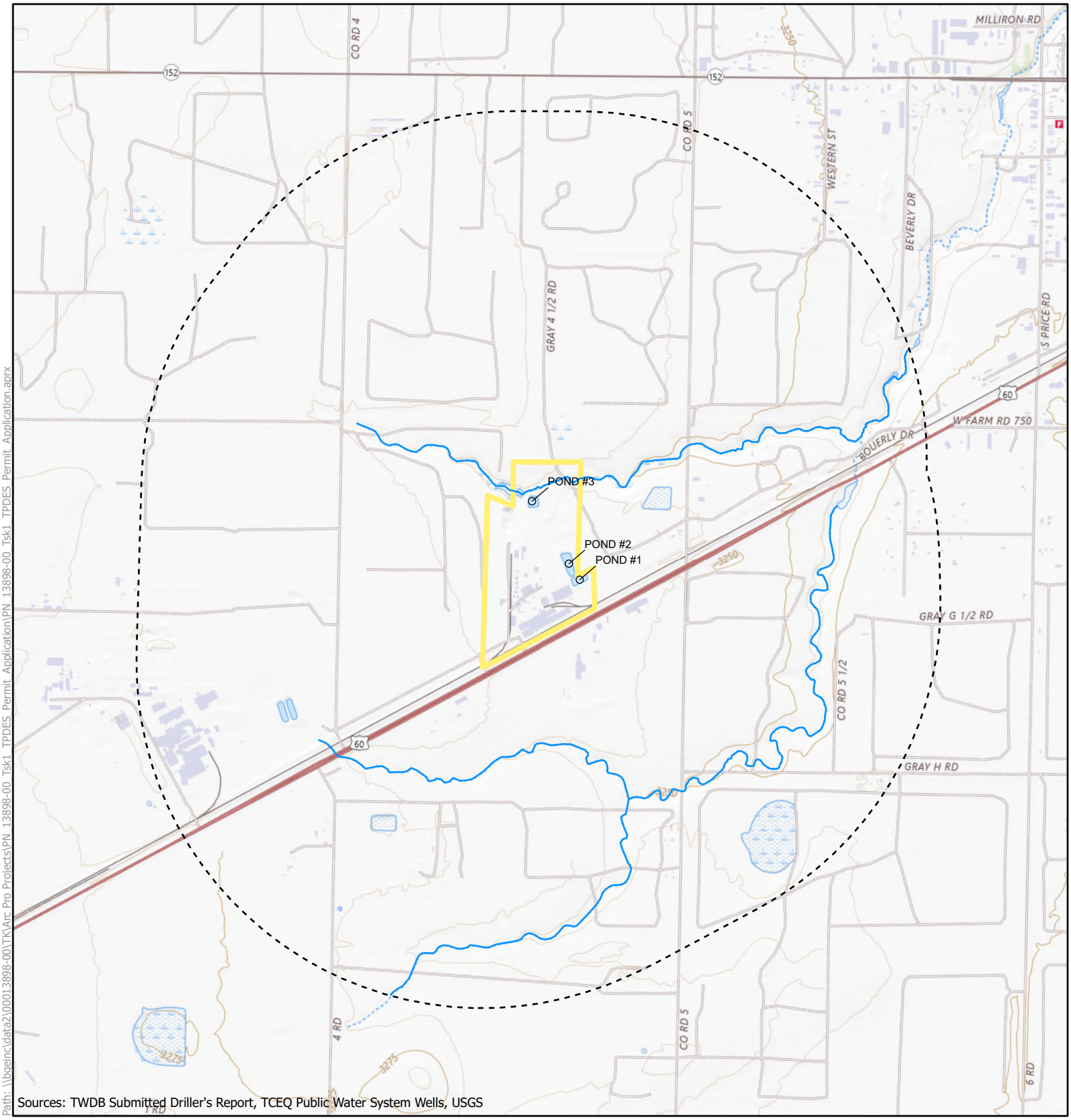
0 500 Meters

- Domestic Water Wells Within 1 Mile
- Industrial Water Wells Within 1 Mile
- Monitoring Wells Within 1 Mile
- Public Water Storage Within 1 Mile
- Site Boundary/Applicant Boundary
- 1 Mile Radius
- Building
- Intermittent Stream
- Water/Pond

TPDES Industrial Wastewater Permit Renewal
SPIF - USGS Quadrangle Map
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701



Path: \\bgeinc\data2\000\13898-00\TK\Arc Pro Projects\PN_13898-00_Tsk1_TPDES_Permit_Application\PN_13898-00_Tsk1_TPDES_Permit_Application.aprx

N

Datum: NAD 1983
Projection: UTM
Zone: 14 North
Units: Meter
Basemap: USGS 7.5' Topographic Quadrangle Lake McConnell, TX & Kingsmill, TX (2022)

0 1,000 2,000 US Feet

0 500 Meters

- Site/Applicant Boundary
- 1 Mile Radius
- Intermittent Stream
- Water/Pond

TPDES Industrial Wastewater Permit Renewal
Supplemental Permit Information Form
Cabot Corporation
Pampa Plant
11561 US 60, Pampa, TX 79065
Gray County

Job No.: 13898-00	1 IN = 2,000 FT	December 2024

BGE
10777 Westheimer, Suite 500, Houston TX 77042
Tel: 281-558-8700 Fax: 281-558-9701

PERMIT NO. WQ0001442000

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

This renewal replaces TCEQ Permit No. WQ0001442000 issued on, March 12, 2021

PERMIT TO DISPOSE OF WASTES
under provisions of
Chapter 26 of the Texas Water Code

I. NAME OF PERMITTEE

A. Name: Cabot Corporation

B. Address: 11561 US Highway 60
Pampa, Texas, 79066

II. NATURE OF BUSINESS PRODUCING WASTE

Cabot Pampa Plant, a carbon black production facility (SIC 2895)

III. GENERAL DESCRIPTION AND LOCATION OF WASTE DISPOSAL SYSTEM

Description: Raw water is obtained from wells. Process wastewater (quench water, process area and equipment wash down water, scrubber wastewater, hydrostatic testing water, truck wash bay water, stormwater from process areas, stormwater from the feedstock secondary containment, stormwater from the secondary urea containment area, urea from incidental piping leaks, neutralized nitric acid wastewater, and electric heater knockout water), shower graywater, and stormwater is routed and retained in one of three ponds for disposal by evaporation. Pond Nos. 1 and 2 are located on the east side of the plant and have a retention capacity of 4.9 acre-feet and 25.6 acre-feet, respectively. Pond No. 3 (retention basin) is located on the north side of the plant and has a retention capacity of 12.3 acre-feet.

Location: The facility is located at 11561 U.S. Highway 60, approximately 2.7 miles southwest of the intersection of State Highway 70 and U.S. Highway 60, Gray County, Texas 79065

Drainage Basin: The facility and disposal site are located in the drainage area of Canadian River Below Lake Meredith in Segment No. 0101 of the Canadian River Basin. No discharge of pollutants into water in the state is authorized by this permit.

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

ISSUED DATE:

_____

For the Commission

IV. CONDITIONS OF THE PERMIT

Character: Process wastewater (quench water, process area and equipment wash down water, scrubber wastewater, hydrostatic testing water, truck wash bay water, stormwater from process areas, stormwater from the feedstock secondary containment, stormwater from the secondary urea containment area, urea from incidental piping leaks, neutralized nitric acid wastewater, and electric heater knockout water), shower graywater, and stormwater.

Volume: The wastewater, excluding stormwater runoff, shall not exceed a daily maximum flow of 0.025 million gallons per day (MGD) when the freeboard of Pond No. 3 (retention basin) is 2 feet or less.

Quality: All wastewater shall be routed to the designated wastewater holding or disposal facilities. Treatment shall be sufficient to prevent nuisance conditions in the ponds. The quality of the effluent routed to Pond No. 3 (retention basin) shall meet the following limitations:

Parameter	Daily Average	Daily Maximum	Frequency	Sample Type
Flow	Report MGD	Report MGD	1/day	Estimate
pH (Standard Units)	6.0 SU (min)	9.0 SU	1/6 months	Grab

Results from the analyses must be retained on site for five years and available for inspection by authorized representatives of the Texas Commission on Environmental Quality (TCEQ). This data must be submitted to the TCEQ Enforcement Division (MC 224), Industrial Permits Team (MC 148), and Region 1 Office during the month of September of each calendar year.

V. SPECIAL PROVISIONS:

A. For the purpose of Part IV of this permit, the following definitions shall apply:

1. Grab sample – an individual sample collected in less than 15 minutes.

2. Grab sample quality – the quality determined by measuring the concentration in milligrams per liter, parts per million, or other appropriate units of measurement in a single grab sample of the defined waste.

3. Daily average flow volume – the arithmetic average of all determinations of the daily flow measurement 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 discharge, the determination shall be the arithmetic average of all instantaneous measurements taken during that month.

B. The permittee shall regulate the amount of water recycled to the plant so that enough water is present in all evaporation ponds to prevent cracking of the clay bottom unless the pond liner is under construction or under maintenance.

C. The permittee shall maintain at least 2.0 feet of freeboard in Pond No. 3 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

D. Wastewater Pond Nos. 1 and 2 shall be operated in such a manner as to maintain a minimum freeboard of one and a half (1.5) feet.

E. At least 1/month, the permittee shall measure the freeboard of all ponds and inspect the ponds for visible oil. Any oil in the ponds shall be removed and disposed of in an appropriate manner. Every six (6) months the permittee shall determine the pH of the water contained in the ponds. The permittee shall maintain a log containing the results of the freeboard measurements and the visible oil inspection. The log shall include the previous two (2) year period results and shall be available for inspection by the TCEQ Region personnel.

F. There shall be no discharge of domestic sewage. All domestic sewage shall be routed to septic tank/drainfield for disposal, or disposed of by other authorized means.

G. Upon permit issuance, or until the requirements of Special Provision H have been met, the existing wastewater ponds 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.

H. The permittee shall comply with either Alternative 1 or Alternative 2 upon permit issuance
1. Alternative 1:

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*.

1. N/A
2. 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.
3. 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 and copy the TCEQ Compliance Monitoring Team (MC-224). 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 3a through 3c and 4 through 7 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 3a through 3c of this subparagraph.

a. 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.

b. 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.

c. 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) and copy the TCEQ Compliance Monitoring Team (MC-224).

4. For a pond that must be lined according to subparagraph 3 (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 3a - 3c 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 Team (MC-224), and 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.

5. Protection and maintenance requirements for a pond subject to subparagraph 2 or 3 (including ponds with in-situ soil liners).

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

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

   c. 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.

d. 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.

i. 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.

ii. 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 Team (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.

iii. 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.

6. For a pond subject to subparagraph 2 or 3 (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.

7. For a pond subject to subparagraph 2 or 3 (including ponds with in-situ soil liners), the permittee shall maintain at least 2.0 feet of freeboard in the pond except when:

a. 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;

b. 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

c. the pond was not required to have at least 2.0 feet of freeboard according to the requirements at the time of construction.

2. <u>Alternative 2:</u>

a) The permittee shall conduct annual effluent and groundwater sampling. The results of the sampling shall be submitted in a report comparing effluent chemical data and

groundwater chemical data. This comparison shall be supported by data that provide a complete and accurate representation of process-wastewater pollutants so that a reasonable comparison with groundwater quality can be made. Sample parameters should include, but are not limited to, the following:

Total petroleum hydrocarbons	Sulfur	Calcium	Sodium	Ammonia-N
Oil and grease	Sulfate	Potassium	Phosphorus	Total Kjeldahl Nitrogen
RCRA-8 metals	pH	Magnesium	Nitrate-N	Specific Conductance

The report must include, but is not limited to, a narrative of the comparison of effluent and groundwater data, laboratory results, a base map of the groundwater well locations, justification of the groundwater wells chosen to be included in the study, and the sampling depths. The permittee shall also include an anion-cation balance with each groundwater monitoring report.

These reports shall be submitted annually to the TCEQ Water Quality Assessment Team (MC-150), the TCEQ Enforcement Division (MC-224), and the TCEQ Region 1 office by September 30 of each year.

I. Upon permit issuance, the permittee may submit, in writing, any request to modify the sampling schedule and submittal of reports comparing effluent and groundwater data. This request must be submitted to the Water Quality Assessment Team (MC-150) for review and approval. The request must include appropriate data and justification supporting the modification, as appropriate. The Executive Director may modify the sampling schedule or analytical parameters to ensure protection of groundwater quality.

J. If it determined that infiltration from the wastewater ponds is negatively impacting groundwater quality, the permittee may be required to initiate corrective action, including, but not limited to, installing pond liners in accordance with Alternative 1 above.

K. The effluent disposed in each pond must be sampled and analyzed as directed below for those parameters listed in Tables 1, 2 and 3 of Attachment A of this permit. Upon the year 2025 permit issuance, analytical testing for the ponds must be completed within 60 days of initial disposal that is representative of normal operations for WQ0001442000. Upon the year 2025 permit issuance, results of the analytical testing must be submitted within 90 days of initial disposal that is representative of normal operations to the TCEQ Industrials Permits Team (MC-148). Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations, monitoring requirements, or both.

Table 1: Analysis is required for all pollutants. Disposed water must be sampled and analyzed for those parameters listed in Table 1 for a minimum of four sampling events at least one week apart.

Table 2: Analysis is required for those pollutants in Table 2 that are used at the facility that could in any way contribute to contamination in the ponds. Sampling and analysis must be conducted for a minimum of four sampling events at least one week apart.

Table 3: For all pollutants listed, the permittee shall indicate whether each pollutant is believed to be present or absent in the disposed water in each pond. Sampling and analysis

must be conducted for each pollutant believed present for a minimum of one sampling event.

The permittee shall report the flow at the ponds in million gallons per day (MGD) in the attachment. The permittee shall indicate on each table whether the samples are composite (C) or grab (G) by checking the appropriate box.

Attachment A

Table 1

Outfall No.: ☐C ☐G	**Effluent Concentration (mg/L)**				
Pollutants	**Samp.**	**Samp.**	**Samp.**	**Samp.**	**Average**
Flow (MGD)					
BOD (5-day)					
CBOD (5-day)					
Chemical Oxygen Demand					
Total Organic Carbon					
Dissolved Oxygen					
Ammonia Nitrogen					
Total Suspended Solids					
Nitrate Nitrogen					
Total Organic Nitrogen					
Total Phosphorus					
Oil and Grease					
Total Residual Chlorine					
Total Dissolved Solids					
Sulfate					
Chloride					
Fluoride					
Temperature (°F)					
Total Alkalinity (mg/L as $CaCO_3$)					
pH (Standard Units; min/max)					

	Effluent Concentration (µg/L)					**MAL[1] (µg/L)**
Total Aluminum						2.5
Total Antimony						5
Total Arsenic						0.5
Total Barium						3
Total Beryllium						0.5
Total Cadmium						1
Total Chromium						3
Trivalent Chromium						N/A
Hexavalent Chromium						3
Total Copper						2
Cyanide						10
Total Lead						0.5
Total Mercury						0.005
Total Nickel						2
Total Selenium						5
Total Silver						0.5
Total Thallium						0.5
Total Zinc						5.0

[1] Minimum Analytical Level

Attachment A

Table 2

Outfall No.: ☐C ☐G Pollutant	Samp. 1 (µg/L)*	Samp. 2 (µg/L)*	Samp. 3 (µg/L)*	Samp. 4 (µg/L)*	Avg. (µg/L)*	MAL (µg/L)
Acrylonitrile						50
Anthracene						10
Benzene						10
Benzidine						50
Benzo(*a*)anthracene						5
Benzo(*a*)pyrene						5
Bis(2-chloroethyl)ether						10
Bis(2-ethylhexyl)phthalate						10
Bromodichloromethane						10
Bromoform						10
Carbon Tetrachloride						2
Chlorobenzene						10
Chlorodibromomethane						10
Chloroform						10
Chrysene						5
Cresols						10
1,2-Dibromoethane						10
m-Dichlorobenzene						10
o-Dichlorobenzene						10
p-Dichlorobenzene						10
3,3'-Dichlorobenzidine						5
1,2-Dichloroethane						10
1,1-Dichloroethylene						10
Dichloromethane						20
1,2-Dichloropropane						10
2,4-Dimethylphenol						10
Di-*n*-Butyl Phthalate						10
Ethylbenzene						10
Fluoride						500
Hexachlorobenzene						5
Hexachlorobutadiene						10
Hexachlorocyclopentadiene						10
Hexachloroethane						20
Methyl Ethyl Ketone						50
Nitrobenzene						10
N-Nitrosodiethylamine						20
N-Nitroso-di-*n*-Butylamine						20
Nonylphenol						333
Pentachlorobenzene						20
Pentachlorophenol						5
Phenanthrene						10
Polychlorinated Biphenyls (PCBs) (**)						0.2
Pyridine						20
1,2,4,5-Tetrachlorobenzene						20
1,1,2,2-Tetrachloroethane						10
Tetrachloroethylene						10

Outfall No.: ☐C ☐G Pollutant	Samp. 1 (µg/L)*	Samp. 2 (µg/L)*	Samp. 3 (µg/L)*	Samp. 4 (µg/L)*	Avg. (µg/L)*	MAL (µg/L)
Toluene						10
1,1,1-Trichloroethane						10
1,1,2-Trichloroethane						10
Trichloroethylene						10
2,4,5-Trichlorophenol						50
TTHM (Total Trihalomethanes)						10
Vinyl Chloride						10

(*) Indicate units if different from µg/L.
(**) Total PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016

Attachment A

Table 3

Outfall No.: ☐C ☐G Pollutant	Believed Present	Believed Absent	Effluent Concentration (mg/L)		No. of Samples
			Average	Maximum	
Bromide					
Color (PCU)					
Nitrate-Nitrite (as N)					
Sulfide (as S)					
Sulfite (as SO_3)					
Surfactants					
Total Boron					
Total Cobalt					
Total Iron					
Total Magnesium					
Total Molybdenum					
Total Manganese					
Total Tin					
Total Titanium					

VI. STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

DEFINITIONS

All definitions in Section (§) 26.001 of the Texas Water Code and Title 30 of the Texas Administrative Code (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. 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.
    b. 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 1 million gallons per day or greater permitted flow.
    c. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
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.
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 which 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.

7. The 8 RCRA metals, regulated under the Resource Conservation and Recovery Act, are: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver. These metals are considered hazardous due to their potential toxicity and are subject to specific disposal and handling regulations.

MONITORING REQUIREMENTS

1. Monitoring Requirements

Monitoring results shall be collected 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 in accordance with 30 TAC §§319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, 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, records 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, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit-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, or application. 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 determining compliance with permit requirements.

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 and 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 which 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. 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 which exceeds any effluent limitation in the permit.

c. In addition to the above, any effluent violation which 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.

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 which 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) which 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 which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which 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).

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 which 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 Texas Water Code Section 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 Special Provisions section of this permit.

h. 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).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code 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 Texas Water Code Section 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 with or without 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 could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring Requirements No. 9;

ii. 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 which are not described in the permit application or which 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 Texas Water Code §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.

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 which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Property Rights

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

8. 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.

9. 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.

10. 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 Texas Water Code §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 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 which 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 percent 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 percent 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 which reaches 75 percent 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 149) 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. Facilities which 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 Environmental Cleanup 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.

11. 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 Chapter 361 of the Texas Health and Safety Code.

TCEQ Revision 06/2008

TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION
TCEQ Permit No. WQ0001442000

DESCRIPTION OF APPLICATION

Applicant:	Cabot Corporation; Permit No. WQ0001442000
Regulated Activity:	Industrial Wastewater Permit
Type of Application:	Renewal
Request:	Renewal without changes
Authority:	Texas Water Code § 26.027; 30 Texas Administrative Code (30 TAC) Chapter 305, Subchapters C-F, Chapters 307, 309, and 319; Commission policies;

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, ten 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 Cabot Pampa Plant.

Process wastewater, including quench water, scrubber discharge, and water from equipment and area washdowns, is collected and directed to the ponds. Additionally, wastewater from boiler blowdown, the oil/water knockout pot, and the truck wash bay is also discharged to the ponds. Stormwater from process areas and tank containment areas—including those for feedstock, future urea storage, and nitric acid—is routed to the ponds as well. Before discharge, stormwater collected in containment areas is inspected, and any oil present is removed.

The facility discharges small amounts (less than 5 gallons per day) of a 75% potassium formate solution into the ditch that feeds Ponds 1 and 2. Potassium formate is used as an additive in the carbon black process. Wastewater and stormwater accumulating in the sump at the nitric acid tank containment area are neutralized with soda ash before being discharged into Pond 1. Minor leaks and spills of nitric acid can occur in secondary containment during loading, unloading, or due to leaking flanges. These leaks are neutralized at the source and washed into a sump, which is emptied periodically when a high-level alarm is triggered. Before sump water is discharged, its pH is tested to confirm neutralization (approximately pH 7). The sump is typically discharged into Pond 1 once every two to three weeks, with about 50 gallons released at a time.

Cabot has installed an SCR system that utilizes urea, which may result in small spills or leaks within the secondary containment or from piping. To account for this, urea has been added as an authorized chemical, allowing only minor leaks that might reach the ponds. Any potential urea discharge is expected to be minimal (less than 1 gallon per day). Cabot is implementing procedures to contain and clean up urea spills, preventing interaction with nitric acid.

Additionally, Cabot may conduct hydrostatic testing on tanks and piping using clean, potable water. Before testing, tanks and piping are thoroughly cleaned, ensuring that no pollutants are discharged into the drainage system leading to the ponds. To maintain pH balance, muriatic acid may be periodically added to the ponds. Although pH testing has never indicated exceedance of the permitted range (6-9 s.u.), muriatic acid is used as a preventive measure to avoid nuisance conditions.

The plant site and land application site are located at 11561 U.S. Highway 60, approximately 2.7 miles southwest of the intersection of State Highway 70 and U.S. Highway 60, Gray County, Texas.

The facility and disposal site are located in the drainage area of Canadian River Below Lake Meredith in Segment No. 0101 of the Canadian River Basin. The designated uses for Segment No. 0101 are primary contact recreation and high aquatic life use. All determinations are preliminary and subject to additional review and revisions.

SUMMARY OF EFFLUENT DATA

The following is a quantitative description of the discharge described in the Monthly Effluent Report data for the period October 2022 through September 2024. The "Average of Daily Avg" values presented in the following table are the average of all daily average values for the reporting period for each parameter. The "Maximum of Daily Max" values presented in the following table are the individual maximum values for the reporting period for each parameter. Flows are expressed in million gallons per day (MGD). pH values are expressed in standard units (SU).

Effluent Characteristics:

Parameter	Average of Daily Avg	Maximum of Daily Max
Flow	0.094 MGD	0.155 MGD
pH	8.3 SU (min)	8.6 SU

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of process wastewater (quench water, process area and equipment wash down water, scrubber wastewater, hydrostatic testing water, truck wash bay water, stormwater from process areas, stormwater from the feedstock secondary containment, stormwater from the secondary urea containment area, urea from incidental piping leaks, neutralized nitric acid wastewater, and electric heater knockout water), shower graywater, and stormwater by evaporation into one of three evaporation ponds.

Final effluent limitations are established in the draft permit as follows:

Pollutant	Daily Average	Daily Maximum
Flow [1]	Report MGD	Report MGD
pH	6.0 SU (min)	9.0 SU

[1] The wastewater, excluding stormwater runoff, shall not exceed a daily maximum flow of 0.025 million gallons per day (MGD) when the freeboard of the Pond No. 3 (retention basin) is two feet or less.

SUMMARY OF CHANGES FROM APPLICATION

1. Graywater was omitted from the application. Permit writer reached out to the permittee and confirmed that graywater needs to be included in the renewal.

SUMMARY OF CHANGES FROM EXISTING PERMIT

1. Zip Code of the Customer's address is changed from 79065 to 79066.

2. Part V. Special Provisions, Item B, in the existing permit was revised according to the senior Staff recommendation and reads as follows:

   "The permittee shall regulate the amount of water recycled to the plant so that enough water is present in all evaporation ponds to prevent cracking of the clay bottom unless the pond liner is under construction or under maintenance. The permittee shall keep monthly records of the volume of wastewater (from all three ponds) recycled back into the facility and maintain such records for a five year period. These records should also be required to be submitted with the next permit application submitted to renew or amend this existing permit."

3. Part V. Special Provisions, Item C.3) in the existing permit is removed.

4. Part V. Special Provisions, Item G in the existing permit was revised according to the senior Staff recommendation and reads as follows:

   "Upon permit issuance, or until the requirements of Special Provision H have been met, the existing wastewater ponds 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"

5. Part V. Special Provisions, Item H, regarding the new wastewater ponds is revised to make it consistent with TCEQ current language being used in other Texas Land Application Permits (TLAPs).

6. Part V. Special Provisions, Item I in the existing permit was revised according to the senior Staff recommendation and reads as follows:

   "Upon permit issuance, the permittee may submit, in writing, any request to modify the sampling schedule and submittal of reports comparing effluent and groundwater data. This request must be submitted to the Water Quality Assessment Team (MC-150) for review and approval. The request must include appropriate data and justification supporting the modification, as appropriate. The Executive Director may modify the sampling schedule or analytical parameters to ensure protection of groundwater quality.

7. Part V. Special Provisions, Item K is added to the current permit according to the senior Staff recommendation and reads as follows:

"The effluent disposed in each ponds must be sampled and analyzed as directed below for those parameters listed in Tables 1 of Attachment A of this permit. Upon the year 2025 permit issuance, analytical testing for the ponds must be completed within 60 days of initial disposal that is representative of normal operations for WQ0001442000. Upon the year 2025 permit issuance, results of the analytical testing must be submitted within 90 days of initial disposal that is representative of normal operations to the TCEQ Industrials Permits Team (MC-148). Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations, monitoring requirements, or both.

Table 1: Analysis is required for all pollutants. Disposed water must be sampled and analyzed for those parameters listed in Table 1 for a minimum of four sampling events at least one week apart.

Table 2: Analysis is required for those pollutants in Table 2 that are used at the facility that could in any way contribute to contamination in the ponds. Sampling and analysis must be conducted for a minimum of four sampling events at least one week apart.

Table 3: For all pollutants listed, the permittee shall indicate whether each pollutant is believed to be present or absent in the disposed water in each pond. Sampling and analysis must be conducted for each pollutant believed present for a minimum of one sampling event.

The permittee shall report the flow at the ponds in million gallons per day (MGD) in the attachment. The permittee shall indicate on each table whether the samples are composite (C) or grab (G) by checking the appropriate box."

8. Part VI. Standard Permit Conditions, Definitions, Item 7 is added to define 8RCRA Metals in the existing permit was revised according to the senior Staff recommendation and reads as follows:

"The 8 RCRA metals, regulated under the Resource Conservation and Recovery Act, are: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver. These metals are considered hazardous due to their potential toxicity and are subject to specific disposal and handling regulations."

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on February 20, 2025, and additional information received on April 07, 2025.
2. Existing permits: TCEQ Permit No. WQ0001442000 issued March 12, 2021
3. TCEQ Rules.
4. "Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits," May 1998.
5. 30 TAC Chapter 309.
6. Texas Water Development Board Lake Evaporation and Precipitation data for Quadrangle 206.

7. Consistency with the Coastal Management Plan: N/A.

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, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. 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 proceeding.

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 Seif Deiab at (512) 239-4622.

Seif Deiab *April 14, 2025*

Seif Deiab Date

Appendix A:
Evaporation Pond Evaluation

Average Condition Evaluation

The pond(s) must have enough surface area to evaporate all the flow to the pond(s) under average rainfall conditions. The pond is considered adequately sized when the Total Storage Necessary is less than or equal to zero. If this value is greater than zero, the pond's surface must be increased or the effluent flow reduced to ensure that no accumulation occurs during average conditions

The following is a summary of calculations performed in determining the Total Storage Necessary:

Effluent Flow	0.025 MGD
Ponds Surface Acres	3.589 acres
Ponds Storage Volume	42.8 acre-feet

Month	# of Days	Flow to Ponds (acre-feet)	Evap Rate (feet)	Evap from Ponds (acre-feet)	Storage Requirements (acre-feet)
January	31	2.38	0.17	0.62	1.76
February	28	2.15	0.20	0.72	1.42
March	31	2.38	0.33	1.19	1.19
April	30	2.30	0.36	1.30	1.00
May	31	2.38	0.25	0.91	1.46
June	30	2.30	0.42	1.52	0.78
July	31	2.38	0.57	2.06	0.32
August	31	2.38	0.46	1.65	0.73
September	30	2.30	0.42	1.51	0.79
October	31	2.38	0.24	0.85	1.53
November	30	2.30	0.28	1.00	1.30
December	31	2.38	0.17	0.63	1.75
				Total Storage Necessary	14.05

Flow to Pond = (Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation from Pond = (Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate = 25-year average monthly net evaporation*
Storage Requirement = (Flow to Pond) - (Evaporation from Pond)
Total Storage Necessary = SUM (Storage Requirement)

Conclusions
Pond Nos. 1, 2 and 3 have approximate storage volume of 4.9 acre-feet, 25.6 acre-feet, and 12.3 acre-feet respectively, total of 42.8 acre-feet. Under average conditions, the ponds are expected to accumulate 14.05 acre-feet of wastewater per year. At a total capacity of 42.8 acre-feet, this pond system will overflow and discharge into surface waters in the state after three years of operation. Under critical conditions, the ponds are expected to accumulate approximately

20.20 acre-feet of wastewater during a 25-year rainfall event. The current cumulative ponds' storage volume is adequate to meet the discharge flows from the facility; no additional storage is needed at this time.

Appendix A:
Evaporation Pond Evaluation

30 Texas Administrative Code (TAC), Chapter 309, Subchapter C outlines procedures used to determine appropriate design for irrigation systems at domestic wastewater treatment plants. Appropriate evaporation pond sizing is determined based upon these procedures using best professional judgement (BPJ). These procedures consist of two evaluations: critical condition evaluation and average condition evaluation.

Critical Condition Evaluation

The critical condition evaluation is designed to evaluate the storage capacity of the pond(s) under a "worst-case scenario." The worst-case scenario is defined as the 25-year lowest net evaporation* assuming daily flow to the pond at the permitted rate. The pond's storage capacity is considered adequate when the Total Storage Necessary is less than or equal to the Pond Storage Volume (the pond could contain all wastewater discharged when evaporation is lowest).

The following is a summary of calculations performed in determining the Total Storage Necessary:

Effluent Flow	0.025 MGD
Ponds Surface Acres	3.589 acres
Ponds Storage Volume	42.8 acre-feet

Month	# of Days	Flow to Ponds (acre-feet)	Evap Rate (feet)	Evap from Ponds (acre-feet)	Storage Requirements (acre-feet)
January	31	2.38	0.10	0.35	2.03
February	28	2.15	0.11	0.40	1.74
March	31	2.38	0.18	0.66	1.71
April	30	2.30	0.20	0.73	1.57
May	31	2.38	0.14	0.51	1.87
June	30	2.30	0.24	0.85	1.45
July	31	2.38	0.32	1.15	1.23
August	31	2.38	0.26	0.92	1.46
September	30	2.30	0.23	0.84	1.46
October	31	2.38	0.13	0.47	1.90
November	30	2.30	0.16	0.56	1.74
December	31	2.38	0.10	0.35	2.03
				Total Storage Necessary	20.20

Flow to Pond = (Effluent Flow (MGD)) * (# of Days) * (3.0684)
Evaporation from Pond = (Pond Surface Acres) * (Evaporation Rate)
Evaporation Rate = 25-year lowest net evaporation distributed by month
Storage Requirement = (Flow to Pond) - (Evaporation from Pond)
Total Storage Necessary = SUM (Storage Requirement)

*Texas Water Development Board Lake Evaporation and Precipitation data for Quadrangle 206 for the period of record 1954 through 2025.