Administrative Package Cover Page

This file contains the following documents:

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

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

1. Enter applicant's name here (2. Enter Customer Number here (i.e., CN6########)) operates 4. Enter name of facility here (5. Enter Regulated Entity Number here (i.e., RN1########)), a 7. Enter facility description here. The facility is located at 9. Enter location here, in 10. Enter city name here, 11. Enter county name here County, Texas 12. Enter zip code here. 13. Enter summary of application request here.

Discharges from the facility are expected to contain 14. List all expected pollutants here. 15. Enter types of wastewater discharged here are treated by 17. Enter a description of wastewater treatment used at the facility here.

NXP USA, Inc. (CN602689218) operates NXP Ed Bluestein Site (RN100843747), a semiconductor manufacturing facility. The facility is located at 3501 Ed Bluestein Blvd, in

Austin, Travis County, Texas 78721. Permit renewal to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 520,000 gallons per day.

Discharges from the facility are expected to contain, as listed in the current permit, total dissolved solids (TDS), Total Toxic Organics (TTO) and Fluoride. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. The permitted discharge consists of the following waste streams Ultra Pure Water Plant (UPW) reverse osmosis (RO) reject water, composed of incoming city water and high quality reclaim RO permeate (process wastewater), as well as UPW multi-media filter backwash. None of these waste streams are pretreated prior to discharge.

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

AGUAS RESIDUALES INDUSTRIALES **/AGUAS PLUVIALES**

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

1. Introduzca el nombre del solicitante aquí (2. Enter Customer Number here (i.e., CN6########)) opera 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), una 7. Introduzca la descripción de la instalación aquí. La instalación está ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

NXP USA, Inc. (CN602689218) opera Sitio de NXP Ed Bluestein RN100843747, una instalación de fabricación de semiconductores. La instalación está ubicada en 3501 Ed Bluestein Blvd, en Austin, Condado de Travis, Texas 78721. Renovación de permiso para autorizar la descarga de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 520,000 galones por día.

Se espera que las descargas de la instalación contengan, como se indica en el permiso actual, sólidos disueltos totales (TDS), compuestos orgánicos tóxicos totales (TTO) y fluoruro. Se incluyen contaminantes potenciales adicionales en el Informe técnico de aplicación de aguas residuales industriales, Hoja de trabajo 2.0. La descarga permitida consiste en las siguientes corrientes de desechos, agua de rechazo de ósmosis inversa (RO) de la Planta de Agua Ultra Pura (UPW), compuesta por agua de la ciudad entrante y permeado de RO de recuperación de alta calidad (aguas residuales de proceso), así como retrolavado de filtros multimedia de UPW. Ninguno de estos flujos de desechos recibe un tratamiento previo antes de su descarga.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0002876000

APPLICATION. NXP USA, Inc., 3501 Ed Bluestein Boulevard, Austin, Texas 78721, which owns a semiconductor manufacturing facility, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002876000 (EPA I.D. No. TX0101702) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 520,000 gallons per day. The facility is located at 3501 Ed Bluestein Boulevard, in the city of Austin, in Travis County, Texas 78721. The discharge route is from the plant site to an unnamed tributary, thence to Walnut Creek, thence to Colorado River Below Lady Bird Lake (formerly Town Lake). TCEQ received this application on October 15, 2024. The permit application will be available for viewing and copying at Carver Branch, Austin Public Library, library shelf, 1161 Angelina Street, Austin, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.661944,30.274166&level=18

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

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

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

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

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

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

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

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

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 NXP USA, Inc. at the address stated above or by calling Ms. Elizabeth Cummings, Environmental Engineer, at 512-933-3938.

Issuance Date: November 7, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0002876000

SOLICITUD. NXP USA, Inc., 3501 Ed Bluestein Boulevard, Austin, Texas 78721 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0002876000 (EPA I.D. No. TX0101702) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 520,000 galones por día. La planta está ubicada 3501 Ed Bluestein Boulevard, en Austin, en el Condado de Travis, Texas 78721. La ruta de descarga es del sitio de la planta hasta un afluente sin nombre, de allí a Walnut Creek y de allí a Colorado. Río debajo del lago Lady Bird (anteriormente Town Lake). La TCEQ recibió esta solicitud el 15 de octubre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Sucursal Carver, Biblioteca Pública de Austin, estante de la biblioteca, 1161 Angelina Street, Austin, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.661944,30.274166&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El

propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados

posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del NXP USA, Inc. a la dirección indicada arriba o llamando a Elizabeth Cummings al 512-933-3938.

Fecha de emisión 7 de noviembre de 2024

October 15, 2024

Texas Commission on Environmental Quality (TCEQ)
Applications Review and Processing Team
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

via Hand Delivery

RE: NXP USA, Inc. (CN602689218)
Ed Bluestein Facility (RN100843747)
Texas Pollution Discharge Elimination System (TPDES) Permit Renewal Application WQ0002876000

Dear Applications Review Team:

NXP USA, Inc. (NXP) is submitting a TPDES Renewal Application for the Ed Bluestein facility located at 3501 Ed Bluestein Blvd., Austin, Texas, 78721.

The TPDES application submitted within is a renewal of the 2019 TPDES permit. The 2019 application amends the reclaimed wastewater project to use a high quality process wastewater stream instead of the Reclaim RO process wastewater stream. Details about the change are included in the "Wastewater Generating Processes" document (TR-1.b) which was submitted in 2014 and has been revised to reflect current processes. Note that the High Quality Reclaim project has been implemented and has the ability to discharge to Outfall 001. At this time NXP has routed all Outfall 001 streams to further onsite treatment and diverts it's waste streams to the onsite Industrial Wastewater Treatment (IWT) system and does not discharge to Outfall 001. This permit authorization would allow NXP to utilize Outfall 001 as a backup, in the event that IWT is unable to take this stream.

Please note that NXP's Ed Bluestein site has begun the required sampling and testing from Outfall 001 for Worksheet 2.0 of the Technical Report. Two of the four needed analysis results have been obtained and are included in the Technical Report. The remaining samples have been collected and once the analysis results are compiled, an updated Worksheet 2.0 with all four results will be resubmitted with a cover letter.

NXP is hereby submitting one original and three copies of the above-referenced application. If you have any questions or concerns regarding this application, please contact me at 512-933-3938 or via email at Elizabeth.Cummings@nxp.com.

Sincerely,

Elizabeth Cummings

Elizabeth Cummings
EHS Department
NXP USA, Inc.

TPDES Permit Application - Renewal

FOR

NXP USA, Inc.
Ed Bluestein Facility
TPDES Permit No. WQ0002876000
EPA ID No. TX0101702
CN602689218 RN100843747

Submitted To:
Water Quality Applications Review Team
Texas Commission of Environmental Quality
Building F, Room 2101
12100 Park 35 Circle
Austin, TX 78753

Submitted By:
NXP USA, Inc.
3501 Ed Bluestein Boulevard
Austin, Texas

October 2024

Administrative Report

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

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

APPLICANT NAME: NXP USA, Inc

PERMIT NUMBER (If new, leave blank): WQ00 WQ0002876000

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

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

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

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

Applicant Name: NXP USA, Inc

Permit No.: WQ0002876000

EPA ID No.: TX0101702

Expiration Date: 04/14/2025

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

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

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

☒ Active ☐ Inactive

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

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

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

☐ New

☐ Renewal with changes ☒ Renewal without changes

☐ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: N/A

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

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

g. Application Fee

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

h. Payment Information

Mailed

Check or money order No.: 342162

Check or money order amt.: 1215.00

Named printed on check or money order: Craftcorps, Inc.

Epay

Voucher number: Click to enter text.

Copy of voucher attachment: Click to enter text.

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN602689218

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: NXP USA, INC

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): Rankin, Mark

Title: EHS Manager-Austin Credential: Click to enter text.

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

☒ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

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

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

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

☐ Yes ☐ No

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

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

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

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

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

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Ms. Full Name (Last/First Name): Cummings. Elizabeth

Title: Environmental Engineer Credential: Click to enter text.

Organization Name: NXP USA, Inc.

Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721

Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Wappler, Troy

Title: Environmental Engineer Credential: P.E.

Organization Name: NXP USA, Inc.

Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721

Phone No: 512.933.6874 Email: Troy.Wappler@NXP.com

Attachment: None

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

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

a. Prefix: Ms. Full Name (Last/First Name): Cummings, Elizabeth
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: NXP USA, Inc.
Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721
Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

b. Prefix: Mr. Full Name (Last/First Name): Wappler, Troy
Title: Environmental Engineer Credential: P.E.
Organization Name: NXP USA, Inc.
Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721
Phone No: 512.933.6874 Email: Troy.Wappler@NXP.com

Attachment: None

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

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

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

Prefix: Ms. Full Name (Last/First Name): Cummings, Elizabeth
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: NXP USA, Inc.
Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721
Phone No: 5512.933.3938 Email: Elizabeth.Cummings@NXP.com

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

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

Prefix: Ms. Full Name (Last/First Name): Cummings, Elizabeth
Title: Environmental Engineer Credential: Click to enter text.
Organization Name: NXP USA, Inc
Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721
Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Cummings, Elizabeth

Title: Environmental Engineer Credential: Click to enter text.

Organization Name: NXP USA, Inc.

Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721

Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: Elizabeth.Cummings@NXP.com

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

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

c. Contact in the Notice

Prefix: Ms. Full Name (Last/First Name): Cummings, Elizabeth

Title: Environmental Engineer Credential: Click to enter text.

Organization Name: NXP USA, Inc.

Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: Carver Branch, Austin Public Library due to Willie Mae Kirk Library being closed for renovations Location within the building: Library Shelf

Physical Address of Building: 1161 Angelina Street

City: Austin County: Travis

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☒ Yes ☐ No

   If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☒ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☒ No

4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☒ No ☐ N/A

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

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

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

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

a. TCEQ issued Regulated Entity Number (RN), if available: RN100843747

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

b. Name of project or site (the name known by the community where located): NXP Ed Bluestein Site

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

☒ Yes ☐ No ☐ N/A (new permit)

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

d. Owner of treatment facility:

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

or Organization Name: NXP USA, Inc

Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721

Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

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

f. Owner of land where treatment facility is or will be: NXP USA, Inc.

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

or Organization Name: NXP USA, Inc

Mailing Address: 3501 Ed Bluestein Blvd City/State/Zip: Austin / TX / 78721

Phone No: 512.933.3938 Email: Elizabeth.Cummings@NXP.com

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

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

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

or Organization Name: Click to enter text.

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

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

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

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

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

or Organization Name: N/A

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

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

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

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

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

☐ Yes ☒ No

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

☒ One-mile radius
☒ Applicant's property boundaries
☒ Labeled point(s) of discharge
☐ Effluent disposal site boundaries
☐ Sewage sludge disposal site
☒ Three-miles downstream information
☐ Treatment facility boundaries
☐ Highlighted discharge route(s)
☒ All wastewater ponds
☐ New and future construction

Attachment: AR-11.b USGS Topographic Map

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

☐ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

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

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

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Austin

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

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

☐ Yes ☒ No

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

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

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

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

☐ Yes No or New Permit ☐ Click to enter text.

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

j. City nearest the disposal site: N/A

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

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

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

Item 12. Miscellaneous Information (Instructions, Page 33)

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

☐ Yes ☒ No

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

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0002876000

Applicant Name: NXP USA, Inc

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

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

Signatory name (typed or printed): Mark Rankin

Signatory title: EHS Manager-Austin

Signature: Mark Rankin (Use blue ink) Date: 10/14/24

Subscribed and Sworn to before me by the said Mark Rankin

on this 14th day of October, 2024.

My commission expires on the 08/02/2027 day of _____, 20_____.

Connie A Bull
Notary Public

CONNIE A BULL
Notary Public, State of Texas
Comm. Expires 08-02-2027
Notary ID 5546368

[SEAL]

Travis
County, Texas

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

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

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

☐ The applicant's property boundaries.

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

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

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

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

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

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

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

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

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

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

Attachment: Click to enter text.

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

☐ Readable/Writeable CD ☐ Four sets of labels

Attachment: Click to enter text.

d. Provide the source of the landowners' names and mailing addresses: Click to enter text.

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

☐ Yes ☐ No

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

Item 2. Original Photographs (Instructions, Page 37)

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

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

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

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

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

Attachment: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: SPIF

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Permit No:** WQ0002876000

1. Check or Money Order Number: 342162
2. Check or Money Order Amount: 1215.00
3. Date of Check or Money Order: 9/20/2024
4. Name on Check or Money Order: Craftcorps, Inc.
5. APPLICATION INFORMATION

   Name of Project or Site: NXP USA, Inc, Ed Bluestein Site, RN100843747

   Physical Address of Project or Site: 3501 Ed Bluestein Blvd, Austin TX, 78721

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Item 1. Individual information (Instructions, Page 38)

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

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

Full legal name (first, middle, and last): N/A

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

Fax No.: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

☐ Plain Language Summary

Attachment
SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: NXP USA, Inc.

   Permit No. WQ00 02876000 EPA ID No. TX 0101702

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

   3501 Ed Bluestein Blvd., Austin, Texas, Travis County, 78721; Approximately 1 mile south of Martin Luther King Jr. Blvd. and 1.5 miles north of the Colorado River on Ed Bluestein Blvd. (US Hwy 183)

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

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

First and Last Name: Elizabeth Cummings

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

Title: Environmental Engineer

Mailing Address: 3501 Ed Bluestein Blvd.

City, State, Zip Code: Austin, TX, 78721

Phone No.: 512.933.3938 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: Elizabeth.Cummings@NXP.com

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

Not Applicable

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

Discharged to unnamed Tributary of Walnut Creek; then to Walnut Creek; then to Colorado River below Town Lake in Segment No. 1428 of the Colorado River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

Not Applicable. The Facility is existing and no new construction is currently proposed

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

The site is comprised primarily of building structures, paved parking and support areas, vegetated landscape areas and stormwater detention ponds. The land use is industrial.

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

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

Not Applicable

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

Not Applicable

Attachment AR-4.a
TCEQ Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 602689218		**RN 100843747**

SECTION II: Customer Information

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

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

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

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

NXP USA, Inc.

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0800311038	12004431826	20-0443182	069450997

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

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

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

15. Mailing Address:

3501 Ed Bluestein Blvd

City	Austin	**State**	TX	**ZIP**	78721	**ZIP + 4**	

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

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

( ) -		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

NXP Ed Bluestein Site

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3501 Ed Bluestein Blvd							
	City	Austin	**State**	TX	**ZIP**	78721	**ZIP + 4**	
24. County	Travis							

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

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

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
3674		334413	

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

Semiconductor Manufacturing

34. Mailing Address:	**3501 Ed Bluestein Blvd**							
	City	**Austin**	**State**	**TX**	**ZIP**	**78721**	**ZIP + 4**	
35. E-Mail Address:								

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

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
	WQ0002876000 Renewal			All Programs and IDS on the Next 2 Pages

SECTION IV: Preparer Information

40. Name:	Elizabeth Cummings	**41. Title:**	Environmental Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 933-3938		( ) -	Elizabeth.Cummings@NXP.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	NXP USA, Inc	**Job Title:**	Environmental Engineer
Name *(In Print):*	Elizabeth Cummings	**Phone:**	(512) 933- **3938**
Signature:	Elizabeth Cummings	**Date:**	10/15/24

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN100843747
Name: FREESCALE SEMICONDUCTOR ED BLUESTEIN SITE View Prior Names ...
Primary Business: INDUSTRIAL CHEMICAL MANUFACTURING PLANT
Street Address: No street address on file.
County: TRAVIS
Nearest City: AUSTIN
State: TX
Near ZIP Code: 78721
Physical Location: 3501 Ed Bluestein Blvd, Austin, TX

Affiliated Customers - Current

Your Search Returned **5** Current Affiliation Records (View Affiliation History ...)

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-5 of 5 Records

CN Number ▲	Customer Name	Customer Role(s)	Details
CN600271365	MOTOROLA SOLUTIONS INC	OWNER OPERATOR	
CN600286553	VEOLIA WTS USA INC	OWNER OPERATOR	
CN600381974	AIR PRODUCTS AND CHEMICALS INC	OWNER OPERATOR	
CN602689218	NXP USA INC	OWNER OPERATOR	
CN604144527	MFPB ED BLUESTEIN LLC	APPLICANT	

Industry Type Codes

Code	Classification	Name
325998	NAICS	All Other Miscellaneous Chemical Product Manufacturing
334413	NAICS	Semiconductor and Related Device Manufacturing
3674	SIC	Semiconductors and Related Devices

Permits, Registrations, or Other Authorizations

There are a total of **44** programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-44 of 44 Records

Program ▲	ID Type	ID Number	ID Status
AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	TH0065G	ACTIVE

AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	TH0065G	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4845300025	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	12684	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	1290	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	2122	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	23058	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	2586	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	2656	ACTIVE
AIR NEW SOURCE PERMITS	PERMIT	5485	CANCELLED
AIR NEW SOURCE PERMITS	PERMIT	7606	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	10024	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	10383	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	10384	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	10385	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	10386	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	107621	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	12247	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	134309	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	13816	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	141784	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	24231	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	42943	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	TH0065G	CANCELLED
AIR OPERATING PERMITS	PERMIT	1490	CANCELLED
IHW CORRECTIVE ACTION	SOLID WASTE REGISTRATION # (SWR)	30477	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	EPA ID	TXD069450997	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	EPA ID	TXP490353060	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	OTS REQUEST	39022	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	PERMIT	50281	CANCELLED
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	30477	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	84881	ACTIVE
POLLUTION PREVENTION PLANNING	ID NUMBER	P00449	ACTIVE
STORMWATER	PERMIT	TXR05DW57	EXPIRED
STORMWATER	PERMIT	TXR05FI03	ACTIVE
STORMWATER	PERMIT	TXR05K447	CANCELLED
STORMWATER	PERMIT	TXR05R740	EXPIRED
TAX RELIEF	ID NUMBER	16429	ACTIVE
TAX RELIEF	ID NUMBER	19819	ACTIVE
TAX RELIEF	ID NUMBER	19888	ACTIVE
TAX RELIEF	ID NUMBER	22135	ACTIVE
VOLUNTARY CLEANUP PROGRAM	ID NUMBER	2529	ACTIVE

WASTEWATER	EPA ID	TX0101702	ACTIVE
WASTEWATER	PERMIT	WQ0002876000	ACTIVE

Attachment AR-9.f
Plain Language Summary Template

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

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

1. Enter applicant's name here (2. Enter Customer Number here (i.e., CN6########)) operates 4. Enter name of facility here (5. Enter Regulated Entity Number here (i.e., RN1########)), a 7. Enter facility description here. The facility is located at 9. Enter location here, in 10. Enter city name here, 11. Enter county name here County, Texas 12. Enter zip code here. 13. Enter summary of application request here.

Discharges from the facility are expected to contain 14. List all expected pollutants here. 15. Enter types of wastewater discharged here are treated by 17. Enter a description of wastewater treatment used at the facility here.

NXP USA, Inc. (CN602689218) operates NXP Ed Bluestein Site (RN100843747), a semiconductor manufacturing facility. The facility is located at 3501 Ed Bluestein Blvd, in

Austin, Travis County, Texas 78721. Permit renewal to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 520,000 gallons per day.

Discharges from the facility are expected to contain, as listed in the current permit, total dissolved solids (TDS), Total Toxic Organics (TTO) and Fluoride. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. The permitted discharge consists of the following waste streams Ultra Pure Water Plant (UPW) reverse osmosis (RO) reject water, composed of incoming city water and high quality reclaim RO permeate (process wastewater), as well as UPW multi-media filter backwash. None of these waste streams are pretreated prior to discharge.

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

AGUAS RESIDUALES INDUSTRIALES **/AGUAS PLUVIALES**

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

1. Introduzca el nombre del solicitante aquí (2. Enter Customer Number here (i.e., CN6########)) opera 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), una 7. Introduzca la descripción de la instalación aquí. La instalación está ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

NXP USA, Inc. (CN602689218) opera Sitio de NXP Ed Bluestein RN100843747, una instalación de fabricación de semiconductores. La instalación está ubicada en 3501 Ed Bluestein Blvd, en Austin, Condado de Travis, Texas 78721. Renovación de permiso para autorizar la descarga de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 520,000 galones por día.

Se espera que las descargas de la instalación contengan, como se indica en el permiso actual, sólidos disueltos totales (TDS), compuestos orgánicos tóxicos totales (TTO) y fluoruro. Se incluyen contaminantes potenciales adicionales en el Informe técnico de aplicación de aguas residuales industriales, Hoja de trabajo 2.0. La descarga permitida consiste en las siguientes corrientes de desechos, agua de rechazo de ósmosis inversa (RO) de la Planta de Agua Ultra Pura (UPW), compuesta por agua de la ciudad entrante y permeado de RO de recuperación de alta calidad (aguas residuales de proceso), así como retrolavado de filtros multimedia de UPW. Ninguno de estos flujos de desechos recibe un tratamiento previo antes de su descarga.

INSTRUCTIONS

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

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

Example

Individual Industrial Wastewater Application

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

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

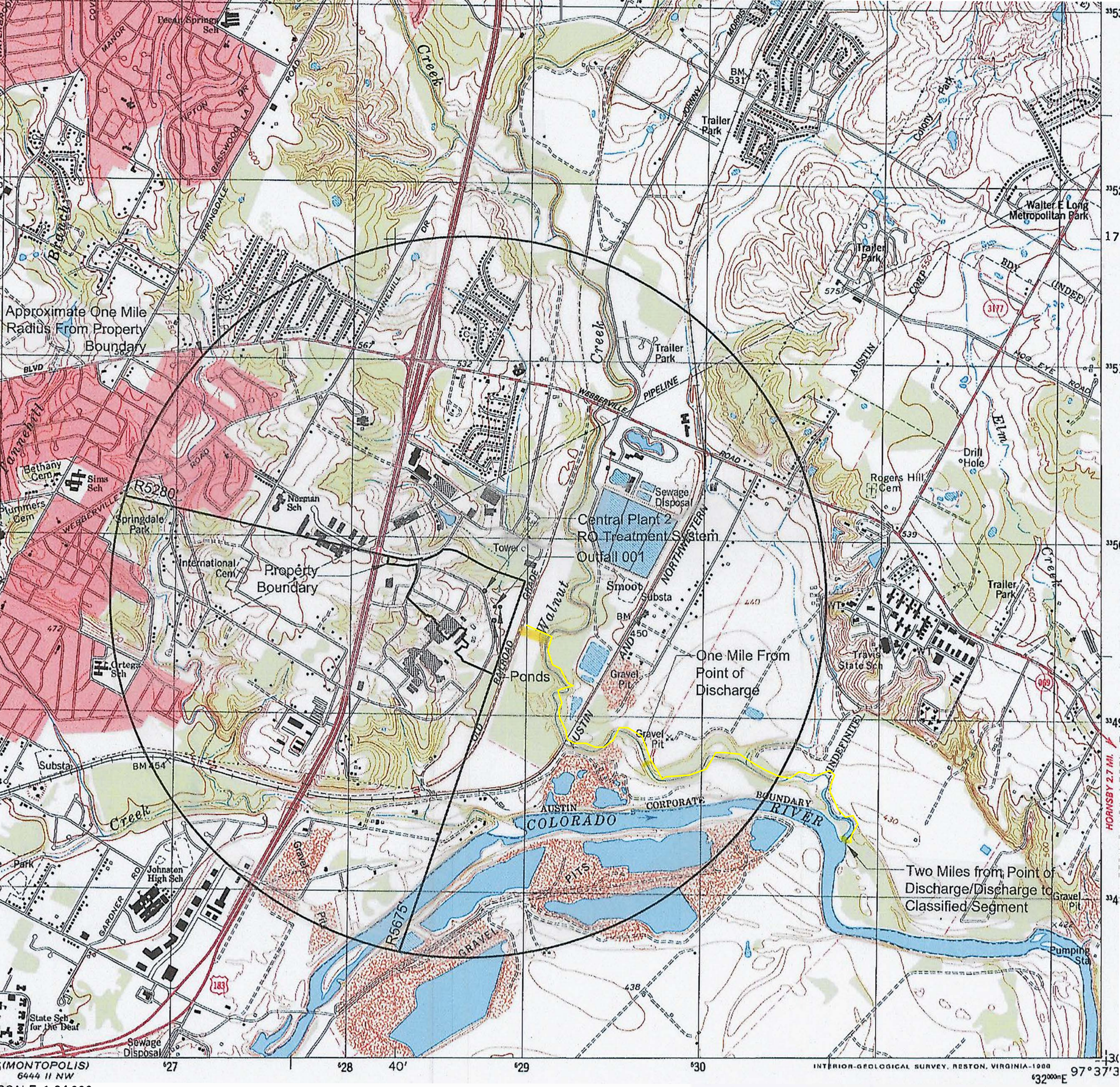
This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via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

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

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

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

Attachment AR-11.b
USGS Topographic Map


Approximate One Mile Radius From Property Boundary
Property Boundary
Central Plant 2 RO Treatment System Outfall 001
Ponds
One Mile From Point of Discharge
Two Miles from Point of Discharge/Discharge to Classified Segment
COLORADO RIVER
Walnut Creek
Elm Creek
Walter E Long Metropolitan Park
Rogers Hill Cem
Travis State Sch
Johnston High Sch
State Sch for the Deaf
Bethany Cem
Sims Sch
Springdale Park
International Cem
Norman Sch
Ortega Sch
Sewage Disposal
Trailer Park
Gravel Pit
Pumping Sta
WEBBERVILLE ROAD
AUSTIN AND NORTHWESTERN
HORNSBY 2.7 MI.
R5280
R5675
(MONTOPOLIS)
6444 II NW
97°37'30"
INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1988

SCALE 1:24 000

0 1 MILE

3000 4000 5000 6000 7000 FEET

0 1 KILOMETER

UR INTERVAL 10 FEET
ODETIC VERTICAL DATUM OF 1929

TH NATIONAL MAP ACCURACY STANDARDS
Y U.S. GEOLOGICAL SURVEY
80225, OR RESTON, VIRGINIA 22092
IC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TEXAS
QUADRANGLE LOCATION
3097-242

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

AUSTIN EAST, TEX.
30097-C6-TF-024
1988
DMA 6444 I SW-SERIES V882

Technical Report

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).

NXP USA, Inc. is a semiconductor manufacturing facility. The products manufactured include integrated circuit devices and related products.

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

See attachment TR-1.b

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

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

Materials List

Raw Materials	Intermediate Products	Final Products
Aluminum (7429-90-5)		
Tungsten (7440-33-7)		
Copper (7440-50-8)		
Nitric Acid (7697-37-2)		
Arsenic (7440-38-2)		
Hydrofluoric Acid (7664-39-3)		
Phosphorous (7723-14-0)		
Silicon Dioxide (7631-86-9)		
Sulfuric Acid (7664-93-9)		

Attachment: N/A

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

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

Attachment: TR-1.d

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

List source(s) used to determine 100-year frequency flood plain: 100 Year Flood Plain Drainage Study for Motorola, Ed Bluestein Subdivision, Austin, Texas "ABBE-Garrett"; July 1994.

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

Attachment: Click to enter text.

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

☐ Yes ☐ No ☒ N/A (renewal only)

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

☐ Yes ☐ No

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

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

Item 2. Treatment System (Instructions, Page 40)

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

Not applicable. The permitted discharge consists of the following waste streams: Ultra Pure Water Plant (UPW) reverse osmosis reject water, composed of incoming city water and high quality reclaim water (process wastewater). As well as UPW multi-media filter backwash. None of these waste streams are pretreated prior to discharge at Outfall 001.

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

Attachment: TR-2.b

Item 3. Impoundments (Instructions, Page 40)

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

☐ Yes ☐ No

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

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

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

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

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

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

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

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

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

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

Impoundment Information

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

Attachment: Click to enter text.

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

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

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

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

Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

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

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

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

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)
001	30.273056	97.660833

Outfall Location Description

Outfall No.	Location Description
001	A point downgradient of the end-of-pipe discharge from CP-2 and upgradient of the point of confluence with any other wastewater or significant storm water streams

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

Outfall No.	Description of sampling point
001	At the combined Nanofilter (NF) Reject of the UPW System

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)
001	0.52	0.7	0.52	0.7	Current Permit

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used
001	Y	N	Meter

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	N*	Y*	N	24	30	12
	*since May 2024, the discharge has been re-routed for further onsite treatment and diverts it's waste streams to the onsite Industrial Wastewater Treatment (IWT) system (different permit authorization) but could potentially still be routed to this outfall, if needed. Utilizing Outfall 001 as a backup, in the event					

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)
	that IWT is unable to take this stream it would be a continuous (24/7) operation.					

Outfall Wastestream Contributions

Outfall No. 001

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
R.O. Reject, containing process wastewater from CP-2	0.39 – 0.56	90*
Multi-media filter backwash water containing process wastewater from CP-2	0.07**	10*
*Approximate Value		
**Maximum value		
TOTAL	0.46 – 0.63	100

Outfall No. N/A

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

Outfall No. N/A

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

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

Attachment: Click to enter text.

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

a. Indicate if the facility currently or proposes to:

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

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

☐ Yes ☒ No Discharge once-through cooling water

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

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

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

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

Attachment: Click to enter text.

c. Cooling Towers and Boilers

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

Cooling Towers and Boilers

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

Item 6. Stormwater Management (Instructions, Page 44)

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

☐ Yes ☒ No

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

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

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

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

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

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

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

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

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

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

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

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.
City of Austin Walnut Creek Treatment Plant	TPDES WQ0010543011

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Item 9. Toxicity Testing (Instructions, Page 45)

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

☐ Yes ☒ No

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

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

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

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

☐ Yes ☒ No

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

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

b. Attach the following information to the application:

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

Attachment: Click to enter text.

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: Click to enter text.

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

☐ Yes ☐ No

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

Item 11. Radioactive Materials (Instructions, Page 46)

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

☐ Yes ☒ No

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

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

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

☐ Yes ☐ No

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

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

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

c. Cooling Water Supplier

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

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

CWIS ID				
Owner				
Operator				

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

d. 316(b) General Criteria

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

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

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

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

   ☐ Yes ☐ No

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

f. Oil and Gas Exploration and Production

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

g. Compliance Phase and Track Selection

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

☐ Yes ☐ No

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

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

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

☐ Track I – AIF greater than 10 MGD

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

☐ Track II

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

Attachment: Click to enter text.

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

☐ Track I – Fixed facility

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

☐ Track I – Not a fixed facility

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

☐ Track II – Fixed facility

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

Attachment: Click to enter text.

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

This item is only applicable to existing permitted facilities.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

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

☐ Yes ☒ No

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

Click to enter text.

Item 14. Laboratory Accreditation (Instructions, Page 49)

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

The laboratory is an in-house laboratory and is:

- periodically inspected by the TCEQ; or
- located in another state and is accredited or inspected by that state; or
- performing work for another company with a unit located in the same site; or
- performing pro bono work for a governmental agency or charitable organization.

The laboratory is accredited under federal law.

The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.

The laboratory supplies data for which the TCEQ does not offer accreditation.

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

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

CERTIFICATION:

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

Printed Name: Mark Rankin

Title: Austin-EHS Manager

Signature: Mark Rankin

Date: 10/15/24

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

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

Item 1. Categorical Industries (Instructions, Page 53)

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

☒ Yes ☐ No

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

40 CFR Effluent Guideline

Industry	40 CFR Part
Electrical and Electrical Components	40 CFR 469

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

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

a. Production Data

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

Production Data

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

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

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

Percentage of Total Production

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

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

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

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

40 CFR 469 Subpart A - Process Wastes: Wastewater generated by the wafer cleaning stations is treated before being blended with potable water from the City of Austin to be used as feed water to the Ultra Pure Water (UPW) treatment unit. The blended feed water is treated by the UPW Plant for use in the facility. The reject from the UPW RO unit (process wastewater) and backwash from the filtration system is discharged via permitted Outfall 001.

Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

Wastewater Generating Processes Subject to Effluent Guidelines

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced
High Quality Reclaim used in UPW RO units	469	A	May 2024

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.

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

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

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** Click to enter text.

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<1.00	1.00	Pending Results	Pending Results
CBOD (5-day)	<1.00	<1.00		
Chemical oxygen demand	27.0	27.1		
Total organic carbon	10.6	7.95		
Dissolved oxygen				
Ammonia nitrogen	0.204	<0.100		
Total suspended solids	4.31	<2.40		
Nitrate nitrogen	2.03	1.91		
Total organic nitrogen	0.861	1.11		
Total phosphorus	1.44	1.21		
Oil and grease	2.40	3.01		

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Total residual chlorine	1.2	1.2		
Total dissolved solids	1160	1060		
Sulfate	326	246		
Chloride	259	242		
Fluoride	2.43	2.13		
Total alkalinity (mg/L as CaCO3)	131	148		
Temperature (°F)	82.2	83.1		
pH (standard units)	7.06	7.26		

Table 2 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	<10.0	<10.0	Pending Results	Pending Results	2.5
Antimony, total	<0.800	<0.800			5
Arsenic, total	2.99	2.80			0.5
Barium, total	48.6	35.6			3
Beryllium, total	<0.300	<0.300			0.5
Cadmium, total	<0.300	<0.300			1
Chromium, total	<2.00	<2.00			3
Chromium, hexavalent	<3.00	<3.00			3
Chromium, trivalent	<2.00	<2.00			N/A
Copper, total	<2.00	<2.00			2
Cyanide, available	<0.01mg/L	<0.01mg/L			2/10
Lead, total	<0.300	<0.300			0.5
Mercury, total	<0.00128	<0.00128			0.005/0.0005
Nickel, total	<3.00	<3.00			2
Selenium, total	<2.00	<2.00			5
Silver, total	<1.00	<1.00			0.5
Thallium, total	<0.500	<0.500			0.5
Zinc, total	18.0	<2.00			5.0

TABLE 3 (Instructions, Page 58)

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

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

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<1.00	<1.00	Pending Results	Pending Results	50
Anthracene	<0.953	<0.948			10
Benzene	<0.300	<0.300			10
Benzidine	<0.953	<0.948			50
Benzo(a)anthracene	<0.953	<0.948			5
Benzo(a)pyrene	<0.953	<0.948			5
Bis(2-chloroethyl)ether	<0.953	<0.948			10
Bis(2-ethylhexyl)phthalate	<2.86	<2.84			10
Bromodichloromethane [Dichlorobromomethane]	24.3	31.2			10
Bromoform	8.64	11.2			10
Carbon tetrachloride	<0.300	<0.300			2
Chlorobenzene	<0.300	<0.300			10
Chlorodibromomethane [Dibromochloromethane]	29.7	34.2			10
Chloroform	17.3	21.0			10
Chrysene	<0.953	<0.948			5
m-Cresol [3-Methylphenol]	<1.91	<1.90			10
o-Cresol [2-Methylphenol]	<1.91	<1.90			10
p-Cresol [4-Methylphenol]	<1.91	<1.90			10
1,2-Dibromoethane	<0.300	<0.300			10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.300	<0.300			10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.300	<0.300			10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.300	<0.300			10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
3,3'-Dichlorobenzidine	<0.953	<0.948	Pending Results	Pending Results	5
1,2-Dichloroethane	<0.300	<0.300			10
1,1-Dichloroethene [1,1-Dichloroethylene]	<0.300	<0.300			10
Dichloromethane [Methylene chloride]	<2.50	<2.50			20
1,2-Dichloropropane	<0.300	<0.300			10
1,3-Dichloropropene [1,3-Dichloropropylene]	<0.300	<0.300			10
2,4-Dimethylphenol	<0.953	<0.948			10
Di-n-Butyl phthalate	<2.86	<2.84			10
Ethylbenzene	<0.300	<0.300			10
Fluoride	2.43	2.13			500
Hexachlorobenzene	<0.953	<0.948			5
Hexachlorobutadiene	<0.953	<0.948			10
Hexachlorocyclopentadiene	<0.953	<0.948			10
Hexachloroethane	<0.953	<0.948			20
Methyl ethyl ketone	<5.00	<5.00			50
Nitrobenzene	<0.953	<0.948			10
N-Nitrosodiethylamine	<1.91	<1.90			20
N-Nitroso-di-n-butylamine	<0.953	<0.948			20
Nonylphenol	<66.7	<66.4			333
Pentachlorobenzene	<0.953	<0.948			20
Pentachlorophenol	<0.953	<0.948			5
Phenanthrene	<0.953	<0.948			10
Polychlorinated biphenyls (PCBs) (**)	<0.0956	<0.0950			0.2
Pyridine	<0.953	<0.948			20
1,2,4,5-Tetrachlorobenzene	<0.953	<0.948			20
1,1,2,2-Tetrachloroethane	<0.300	<0.300			10
Tetrachloroethene [Tetrachloroethylene]	<0.600	<0.600			10
Toluene	<0.600	<0.600			10
1,1,1-Trichloroethane	<0.300	<0.300			10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1,2-Trichloroethane	<0.300	<0.300	Pending Results	Pending Results	10
Trichloroethene [Trichloroethylene]	<0.600	<0.600			10
2,4,5-Trichlorophenol	<0.953	<0.948			50
TTHM (Total trihalomethanes)	80.0	97.6			10
Vinyl chloride	<0.300	<0.300			10

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. **Tributyltin**

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

☐ Yes ☒ No

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

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

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

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

☐ Facilities engaged in wood preserving.

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

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

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

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

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

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

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

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

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☒	☐	0.691	0.497	Pending Results	Pending Results	400
Color (PCU)	☐	☒	-	-			—
Nitrate-Nitrite (as N)	☒	☐	2.03	1.91			—
Sulfide (as S)	☒	☐	<0.050	<0.0500			—
Sulfite (as SO3)	☐	☒	-	-			—
Surfactants	☐	☒	-	-			—
Boron, total	☒	☐	0.179	0.204			20
Cobalt, total	☐	☒	-	-			0.3
Iron, total	☒	☐	<0.05	<0.05			7
Magnesium, total	☒	☐	68.2	62			20
Manganese, total	☒	☐	<0.002	<0.002			0.5
Molybdenum, total	☐	☒	-	-			1
Tin, total	☒	☐	<0.003	<0.003			5
Titanium, total	☒	☐	<0.003	<0.003			30

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

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

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

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

* Indicate units if different from µg/L.

Table 9 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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

* Indicate units if different from µg/L.

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

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

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text.

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

☐ Yes ☒ No

Description: Click to enter text.

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

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

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Table 13 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

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

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

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

☐ Yes ☒ No

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

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

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

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

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

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

a. Width of the receiving water at the outfall: N/A feet

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

Item 3. Classified Segment (Instructions, Page 80)

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

☐ Yes ☒ No

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

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

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

a. Name of the immediate receiving waters: Unnamed Tributary of Walnut Creek

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

☐ Lake or Pond

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

☐ Man-Made Channel or Ditch

☒ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

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

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

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

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

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

☐ Perennial (normally flowing)

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

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☒ other, specify: Outfall 001 is the point of origin of flow; there is no upstream flow

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: Walnut Creek and Segment 1428 of the Colorado River

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

☒ Yes ☐ No

If **yes**, describe how: Discharge enters segment 1428 of the Colorado River approximately 2 miles downstream from the point of discharge

f. General observations of the water body during normal dry weather conditions: Water clarity is good throughout stream. Closer to the outfall, stream has no flow, area is surrounded by grassy dirt, further downstream it is surrounded by ~2' high vegetated earthen sidewalls.

Date and time of observation: 9/23/2024 9:40 am

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

☐ Yes ☒ No

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

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

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

☐ oil field activities
☐ agricultural runoff
☐ upstream discharges
☐ urban runoff
☐ septic tanks
☒ other, specify: N/A

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

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☒ other, specify: None observed uses prior to entering Water Quality Segment 1428

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

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

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

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

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

Attachment TR-1.b
Wastewater Generating Processes

TR-1.b

WASTEWATER GENERATING PROCESSES

FOR

NXP USA, INC.
AUSTIN, TEXAS

Submitted By:

NXP USA, Inc.
3501 Ed Bluestein Boulevard
Austin, Texas

August 21, 2008 (with help of Zephyr Consulting)
Revised February 21, 2014 (with help of Zephyr Consulting)
Revised February 28, 2019
Revised October 9, 2024

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APPENDIX

A. Letter Summary of 2016 Meeting Between NXP and TCEQ

1.0 Introduction

NXP USA, Inc. (NXP), located at 3501 Ed Bluestein Boulevard in Austin, Texas, manufactures integrated circuit devices and related products. In accordance with the Texas Pollutant Discharge Elimination System (TPDES) Permit Number (No.) WQ0002876000, NXP is permitted to discharge a multi-media filter backwash stream and reverse osmosis (RO) reject waters from the treatment of potable water to an unnamed tributary of Walnut Creek via Outfall 001. NXP's permit last renewed in 2019 includes a provision for the inclusion of permeate, i.e. process wastewater, from the CP-2 Reclaim RO unit in the Outfall 001 discharge. This provision includes requirements for sampling analysis to be done once the Reclaim RO system is in process. In 2016, members from NXP met with representatives from TCEQ to discuss modifying the reclaim system. The modification involves the separation of "low quality" and "high quality" process wastewater to be reused on-site. With this change, only the "high quality" reclaim will be sent to the beginning of the CP-2 RO unit, where the reject is eventually discharged via the TPDES permit. The 2016 meeting decided that this change was not to be considered a permit amendment and that the current provision nine in the permit will continue to apply upon completing the reclaim loop. A letter summary of this meeting is included in Appendix A of this document.

The High Quality Reclaim project has been implemented in 2024 and has the ability to discharge to Outfall 001. At the same time NXP has routed all Outfall 001 streams to further onsite treatment and diverts it's waste streams to the onsite Industrial Wastewater Treatment (IWT) system and does not discharge to Outfall 001. This permit authorization would allow NXP to utilize Outfall 001 as a backup, in the event that IWT is unable to take this stream.

This technical report was previously included in the prior application as it describes the processes that generate wastewater subject to this permit application and identifies the waste streams generated and the actual or potential constituents of concern associated with each waste stream. The report has been updated to reflect the planned/current schematic for NXP's reclaimed process wastewater. Attachment TR-2.b to the Technical Report provides a flow schematic for the processes and a water balance for the permitted waste streams.

2.0 RO Treatment System Description

The site's production requirements include the need for ultra-pure deionized water that is provided by the reverse osmosis/deionization (RO/DI) water purification systems located in CP-2. The RO/DI systems consist of RO pretreatment units, RO treatment units, degasifiers, UV (ultraviolet) lamps, deionizers and an ultra-filtration system. The RO pretreatment and treatment units remove essentially all suspended solids and most dissolved solids from the incoming water. The degasifier removes dissolved gases (primarily carbon dioxide and oxygen). The UV lamps oxidize organic molecules reducing TOC (total oxidizeable carbon) in the UPW. The deionizers remove the dissolved solids remaining after RO treatment to yield a high quality, mineral free water. The ultra-filtration system removes particles greater than 0.005 micron.

Raw potable water obtained from the City of Austin is treated by the facility Ultra Pure Water Plant (UPW) for use in the semiconductor manufacturing process. The RO treatment units produce a treated product

water stream (permeate) and a discharge stream (reject). This discharge stream is reclaimed for reuse or is directly discharged from the facility in accordance with the current TPDES Permit. The backwash water from multi-media filtration units that are a component of the UPW system is also discharged in accordance with the current TPDES Permit. The pretreatment and RO systems are described in more detail in the following subsections.

2.1 Pretreatment Units

Pretreatment for the RO system consists of multi-media filtration, temperature adjustment, pH adjustment, chlorine reduction and cartridge filtration.

Raw potable water is collected in the Blend Water storage tank (T-101). The blend water storage tank also collects excess UPW RO permeate and sample streams throughout the UPW system. The High Quality Reclaim (HQR) project also sends treated process wastewater to the Blend water storage tank. Feed water is initially pretreated using four parallel multi-media downflow filter units with stratified layers of very coarse to very fine media (gravel, sand and anthracite). The filters remove the majority of suspended solids present in the feed water. As the particles accumulate on the filters, the differential pressure across the filter media increases. The continuous flow during periods of minimal challenge can cause channeling to occur that could eventually foul the filter bed. For both reasons, the filter media is periodically backwashed and rinsed to remove the accumulated debris (typically once every three months). As each filter is backwashed, the bed is lifted and expanded. Water flows upward through the new flow paths, washing the debris away and allowing the media to be scoured. When the backwash effluent is clear, the bed is allowed to settle with no flow. Prior to being returned to service, a forward rinse washes away any fine debris in the support bed. The backwash and forward rinse streams contain only concentrated silt and debris normally found in City water; there is no chemical contamination in these streams. The backwash and forward rinse streams will be discharged either in accordance with the TPDES Permit, or to the internal Industrial Wastewater system that discharges to the City of Austin's POTW.

The filtered water is then further pretreated prior to entering the RO treatment units. Adjustment of pH is accomplished by either in-line hydrochloric or sulfuric acid addition lowering the pH of the feed water to within 5.5 to 6.5 standard units (s.u.). Maintenance of the feed water pH within the specified range prolongs the life of the RO membrane elements by inhibiting calcium carbonate precipitation. Sodium bisulfite is also added in-line to reduce the residual chlorine present in the feed water. As the final pretreatment step, the feed water is passed through cartridge filters that remove any remaining suspended solids. The treated water is then routed to the RO treatment system.

2.2 UPW RO Treatment Units

The UPW RO Treatment System consists of five parallel treatment trains. Each treatment train has two passes, with the first pass having three stages of RO treatment, while the second pass has two stages. Each RO treatment stage typically consists of two major components: pressurizing pumps and pressure tube arrays; the pressure tube arrays contain a series of membrane elements. There is a sixth treatment

train (Reclaim RO) that receives “low quality” reclaim water and treats it for reuse. It is a single-pass, two-stage RO.

As depicted in TR-2.b, pre-treated feed water is pumped to the first stage RO treatment units. Each first pass RO unit processes approximately 220 to 280 gpm of feed water and generates approximately 40 to 50 gpm of reject water. The second stage reject water is directed to the third stage low-pressure RO nanofilter treatment units with the permeate reclaimed for further use at the facility. Each third stage RO nanofilter treatment unit generates approximately 20 to 35 gpm of reject process wastewater that will be discharged in accordance with the Permit.

The first pass permeate is pumped to the second pass RO units. The second pass permeate is directed to the degasifier, deionizers, and ultra filtration system for further treatment and use at the facility. The second stage RO units each generate approximately 25 to 40 gpm of reject process wastewater that is usually reclaimed for further use at the facility or can be discharged in accordance with the TPDES Permit.

2.3 DI Reclaim “High Quality” Treatment

“High quality” deionized water is collected from certain wafer cleaning stations used in manufacturing operations. Each reclaim stream uses an in-line monitor to test if the conductivity of the stream meets a specified standard. If the stream does not meet the standard, it is rejected and instead co-mingles with low quality DI reclaim feeding the Reclaim RO unit. The Reclaim RO Reject is discharged through the on-site Industrial Wastewater treatment to the City of Austin POTW, while the Reclaim RO permeate is reused in infrastructure around the site (POU abatement, cooling towers). If the high quality reclaim stream does meet the conductivity standard, a valve closes to redirect the water into the HQR Transfer tank (T-122). T-122 is treated for pH using sodium hydroxide while conductivity continues to be measured. If the water conductivity is acceptable, the water continues to ultraviolet light and activated carbon treatment to remove peroxides before running through a particle filter and into the HQR Qualification tank, T-119. It is tested one last time here for conductivity, TOCs, and peroxides. If the specifications are met, the high quality reclaim water is sent to the Blend tank, joining incoming City of Austin water and other reused streams at the beginning of CP-2’s pretreatment and UPW RO treatment units.

Each time the water is sampled for conductivity, it will be diverted to the low quality reclaim system if it does not pass. Because only the high quality stream is potentially used in the UPW RO, the reject water produced will be of higher quality than if both the high and low quality streams were collected.

The High Quality Reclaim system processes wastewater generated by wafer cleaning stations. Accordingly, the product from the HQR system is considered to be reclaimed process wastewater and a “categorical discharge” under 40 CFR 469 Subpart A. A description of this process is provided in the following:

<u>Wafer Cleaning Stations</u>

NXP's wafer cleaning stations consist of wet benches that have built-in tanks for cleaning chemicals, separate tanks for rinsing the wafers with deionized water, and drying units. Only the deionized water rinse baths from these tools are connected to the High Quality Reclaim System. Typically the wafers are submerged in a cleaning solution, then transferred to the deionized water bath for rinsing by submersion, and/or spray mechanisms and then to the drying units. Sulfuric acid, nitric acid, hydrofluoric acid, hydrochloric acid, hydrogen peroxide, and ammonia hydroxide are the common cleaners used in wet

benches. Phosphoric acid modules on wet benches are not connected to the HQR system. The cleaning process is a critical step in the manufacturing of semiconductors so engineering controls are in place to prevent cross contamination between baths. Wafers are moved from one cleaning bath to the next with a deionized water rinse bath between each chemical bath. Given these controls, wafers transferred to the deionized water bath for submersion would have slight residual from the cleaning solutions. Some typical residual contaminants found in the effluent from the deionized water baths might include sulfates, fluorides, nitrates, and silica. The concentration of these contaminants would be low given only de minimus cleaning solution residues are being rinsed off.

2.4 UPW RO Treatment System Controls

Operational control for the UPW RO pretreatment and treatment units is provided by a Facility Monitoring & Control System (FMCS). The FMCS functions to regulate and monitor operation using a predetermined sequence of events and time settings. A graphical display provides a visual means of checking the status of the pretreatment and RO systems. The units may also be manually controlled, and personnel must manually initiate the restart sequence when the system is shut down due to an alarm condition.

The sulfuric acid and sodium bisulfite feed pumps of the pretreatment system are FMCS controlled and have high and low alarm settings with audible alarm and shut down conditions to protect the RO system if the pretreatment parameters are out of specifications.

Feed water, permeate (process wastewater) and reject streams are all monitored for conductivity. Permeate and reject quality are monitored on both the individual treatment units and on the product and reject discharge lines. The RO train will be automatically shut down or diverted to the industrial waste system by the FMCS when one of the following fault conditions occur: 1) low suction water pressure; 2) high feed water temperature; 3) high or low feed water pH; 4) low concentrated flow; and 5) low product flow. Each of these fault conditions will eventually result in a total system shut down, except for a low suction water pressure condition, which will initially shut down the high-pressure pumps only for approximately three minutes, after which the entire system will be shut down if the condition persists.

2.5 High Quality Reclaim System Controls

Operational control for the High Quality Reclaim system is provided by the FMCS. The FMCS functions to regulate and monitor operation using a predetermined sequence of events, conditions, and time settings.

Collecting the high quality reclaim water in both the HQR Transfer and HQR Qualification tanks allows retention time in the tanks for analytical quality measurements of the water. Based on results of the analytical measurements, the tank's contents can be sent either to the next treatment step (or the UPW Blend Tank), or will feed to the low quality reclaim system, where it is used in infrastructure around site or the reclaim RO. If any part of the HQR system fails operationally, the stream is automatically sent to the LQR system and will not go to the UPW RO stream, of which the reject flows out through Outfall 001.

3.0 Wastewater Discharge

To ensure compliance with the existing permit, there are engineering controls in-place to divert the RO Reject wastewater between Outfall 001 and the on-site Industrial Wastewater Treatment (IWT) system based on pH and conductivity readings. As presented in Attachment TR-2.b, after leaving the RO Treatment System, the RO Reject wastewater passes through pH and conductivity analyzers that actuates a three-way valve based on readings. Depending on the readings the valve automatically diverts the RO Reject wastewater from Outfall 001 to the on-site IWT system. The three-way valve diverts the RO Reject wastewater to the IWT system under either of these conditions: (1) pH< 5.40 or> 8.50 std. unit, or (2) based on a correlation between conductivity and TDS. If the three-way valve does not divert the RO Reject wastewater to the IWT system, the wastewater flows into the RO Buffer Tank. The RO Buffer Tank serves as a secondary stage engineering control to eliminate the possibility of a pH permit exceedance prior to discharge to the Outfall 001. There is a pH analyzer in line with a three-way outlet valve on the RO Buffer Tank. The three-way valve on the RO Buffer Tank diverts the RO Reject wastewater from the tank to the IWT system under these conditions: pH< 6.40 or> 8.50 std. unit. If the RO Reject wastewater is not diverted to the IWT system, it then discharges through Outfall 001. At the point of discharge through Outfall 001 there are redundant pH probes to continuously monitor the pH per the requirements of the permit when there is flow. The discharge route beyond Outfall 001 remains the same as contained in the existing permit.

Appendix A
Letter Summary of 2016 Meeting Between NXP and TCEQ

December 7, 1016

Certified Mail
7014 1820 0000 2760 4019

Monica Baez
Wastewater Permitting Section
PO Box 13087, MC-148
Austin TX 78711-3087

Re: TPDES Permit No. WQ0002876000
Freescale Semiconductor, Inc.
CN 602689218, RN 102752763

Dear Ms. Baez:

This letter is being provided to summarize the meeting held between NXP USA, Inc. (NXP), formerly Freescale Semiconductors, Inc., and the TCEQ to discuss proposed changes to the NXP wastewater treatment system currently permitted by TPDES Permit No. WQ0002876000.

On September 14, 2016 a meeting was held at the TCEQ Central Office, Building F Conference Room 2018, to determine whether proposed changes in the NXP wastewater operations would trigger the need to submit permit amendment. Present at the meeting were the following participants:

Meeting Attendance

Name	Representing	Phone	Email
G. Michael Lindner	TCEQ	512-239-3045	mike.lindner@tceq.texas.gov
Monica Baez	TCEQ	512-239-5784	Monica.baez@tceq.texas.gov
Jeff Covington	NXP	512-933-5305	jeff.covington@nxp.com
W. Troy Wappler	NXP	512-933-6874	troy.wappler@nxp.com
Dave Sorrells	Zephyr Environmental	512-879-6626	dsorrells@zephyrenv.com

During the meeting, NXP provided a modified water balance depicting the proposed changes to the internal configuration of wastewater generation activities. A comparison of the modified water balance (see Attachment A) to the water balance provided with the permit application (See Attachment B) was provided.

Currently, NXP is operating their Reverse Osmosis (RO) unit using the City of Austin potable water supply (only) as makeup water. TPDES Permit No. WQ0002876000 authorizes the reuse of wastewater from its deionized (DI) rinse wastewater from its infrastructure/manufacturing operations. The proposed modifications to the NXP wastewater system would involve the separation of "low quality" or initial DI process wastewater from "high quality" DI process wastewater that occurs from subsequent rinses. Only the high quality DI process wastewater would potentially be reused. The high quality DI process

wastewater is proposed to be analyzed by a series of conductivity and Total Organic Carbon (TOC) analyzers and further treated using ultraviolet light, activated carbon, and pH adjustment before being returned to the Reverse Osmosis (RO) unit water intake. DI process wastewater not meeting the NXP internal quality limitations of the pre-analyzers is not sent for reuse in the RO intake. By the separation and reuse of the high quality process wastewater, the expected effluent quality of permitted Outfall 001 is expected to be better than the estimated quality of the Outfall 001 discharge that was provided in the 2014 permit renewal application. The high quality DI process wastewater will supplement approximately 150 gallons per minute (gpm) to the current 1382 gpm of City of Austin Makeup Water going to the RO unit, thus reducing the volume of incoming City of Austin Makeup Water by approximately 150 gpm. Of key importance, the concentration of total phosphorus in the discharge is expected to remain the same as what is currently being discharged.

The proposed changes in the water balance involve internal piping and treatment changes (only) that will not result in an increase in the volume of wastewater being discharged via permitted Outfall 001 or in the permitted effluent quality of the Outfall 001 discharge. Per Provision 9 of *Other Requirements in the TPDES Wastewater Discharge Permit*, additional sampling will be conducted and the analytical results submitted to the TCEQ when the high quality DI process wastewater is added to the existing wastewater discharged through Outfall 001. Accordingly, it was agreed that a permit amendment would not be required for this proposed change in NXP wastewater operations. However, Mr. Lindner suggested that a letter be provided to the Central and Regional offices of the TCEQ to affirm this understanding.

If you have any questions concerning this letter, please contact me at 512-933-6874 or via email troy.wappler@nxp.com.

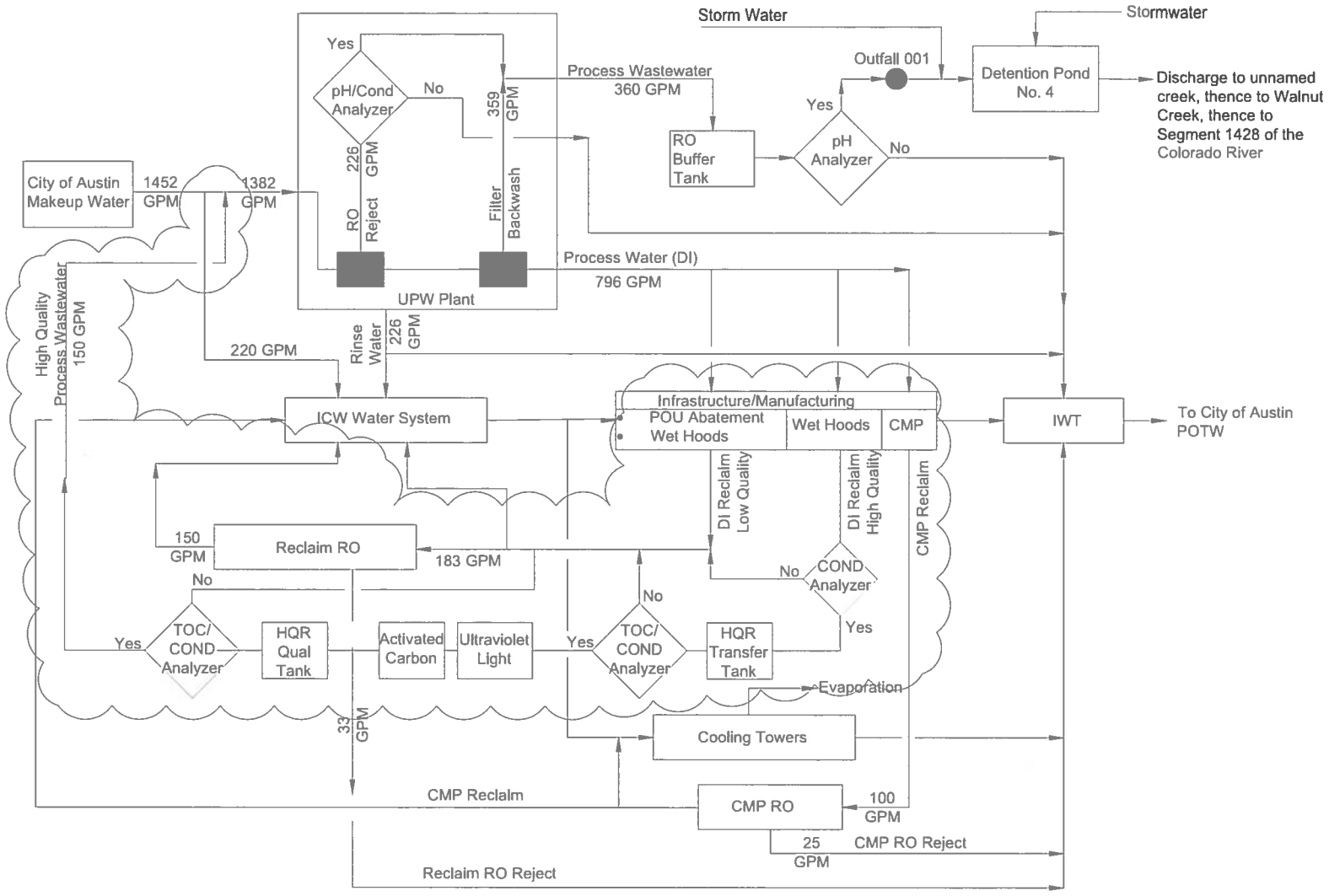
Sincerely,

W. Troy Wappler, P.E.
Environment, Health, and Safety
NXP USA, Inc.

Attachments

cc: Todd McCay, P.E., EHS Manager, NXP USA, Inc.
TCEQ Region 11 Office

Attachment A
RO Reject Flow Schematic
(Revised, 2016)



PROCESS FLOW DIAGRAM FOR TPDES

freescale™

FREESCALE ED BLUESTEIN FACILITY
R.O. REJECT FLOW SCHEMATIC
WATER BALANCE

ENGINEERING LEAD	DRAWN BY
T. WAPPLER	K. CHAPMAN
REVISED 8/18/16	TR-2.b

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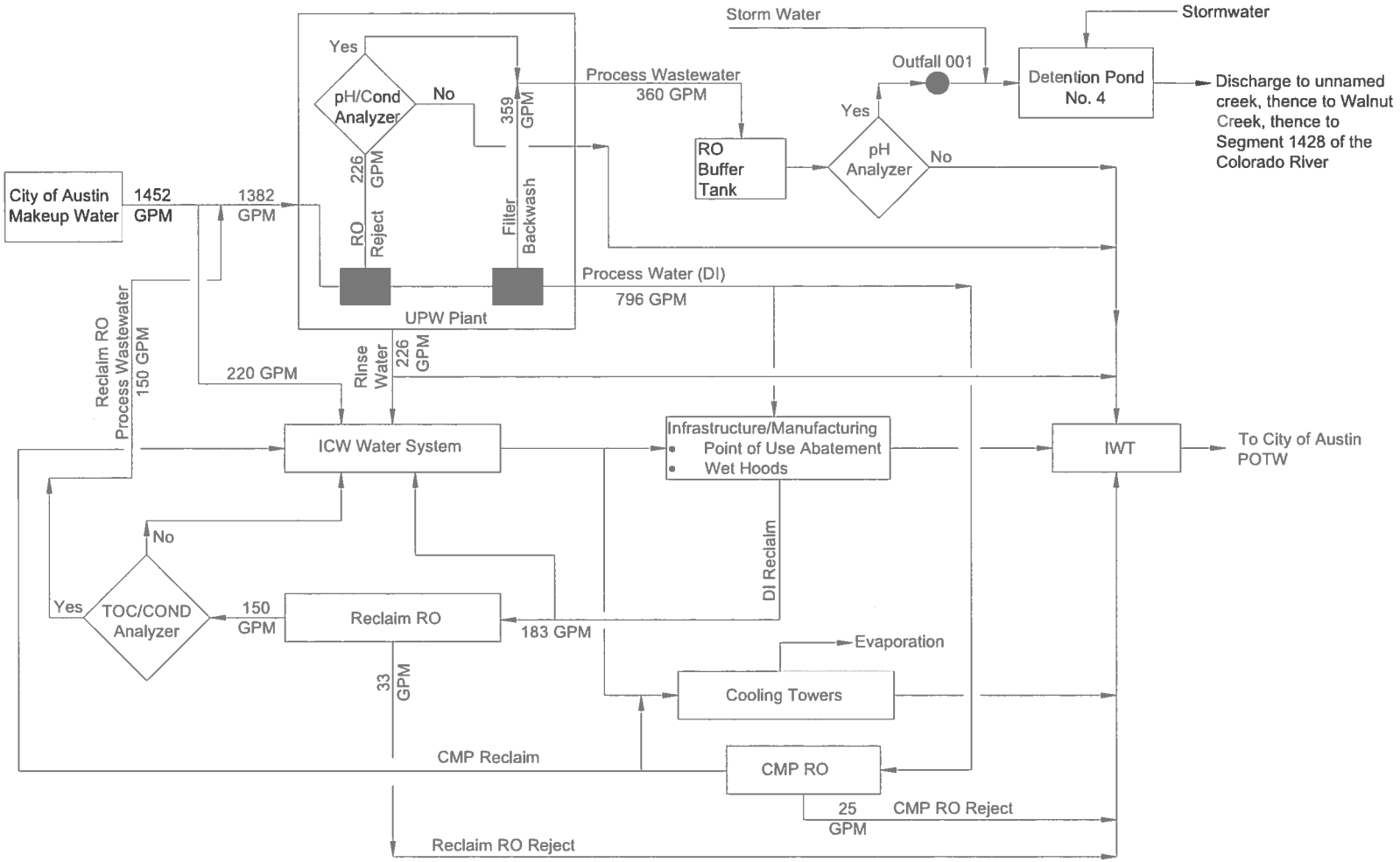
Attachment B
RO Reject Flow Schematic
(2014 Permit Renewal Application)



PROCESS FLOW DIAGRAM FOR TPDES

freescale™

FREESCALE ED BLUESTEIN FACILITY
R.O. REJECT FLOW SCHEMATIC
WATER BALANCE

T. WAPPLER	K. CHAPMAN
2/5/14	TR-2.b

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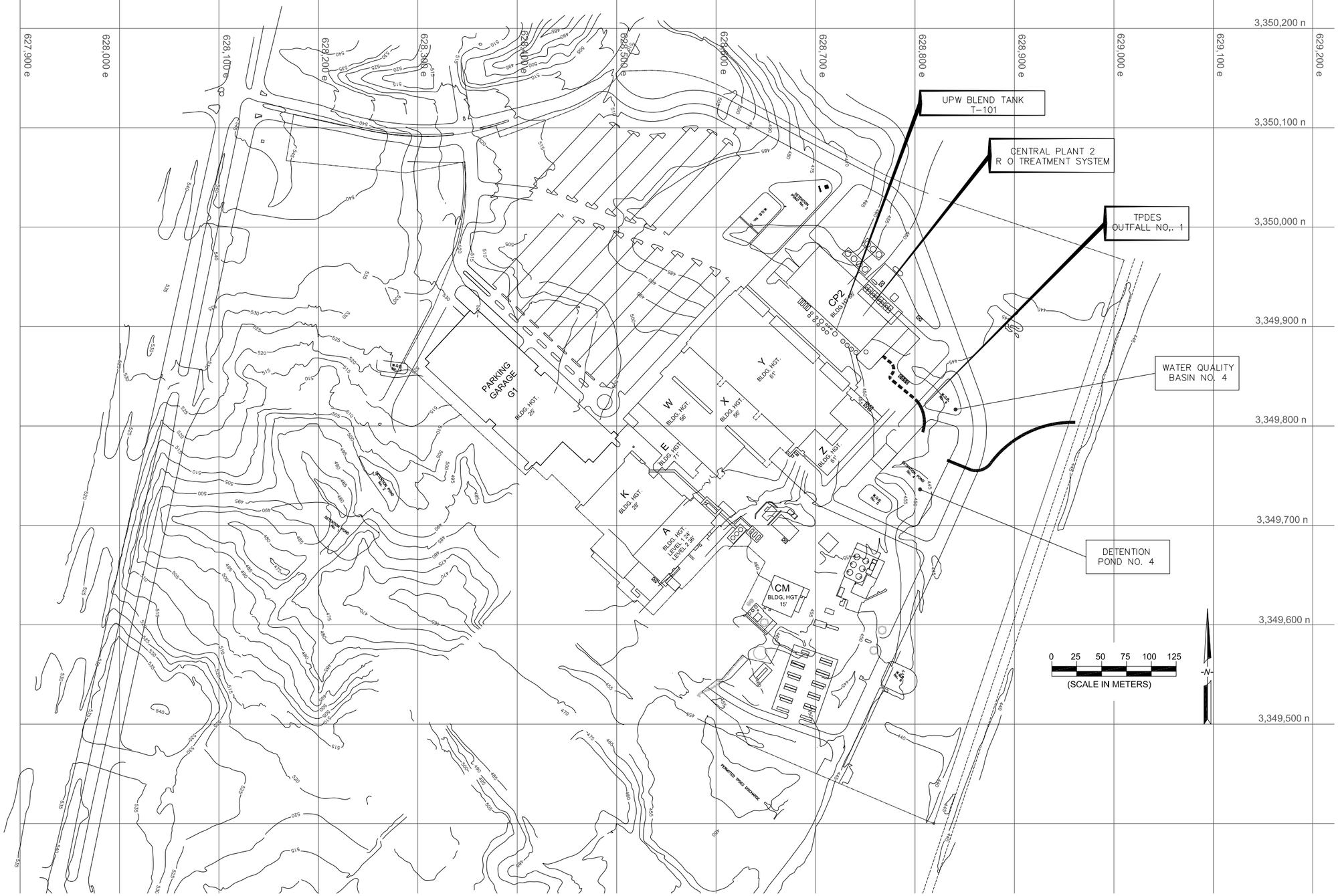
Attachment TR-1.d
Site Maps



LEGEND:

- PROPOSED DISCHARGE ROUTE (BELOW GRADE)
- PROPOSED DISCHARGE ROUTE (ABOVE GRADE)

NXP ED BLUESTEIN FACILITY
SCALE: 1:50

NXP ED BLUESTEIN FACILITY
FACILITY MAP
DRAWING 1 OF 2

ENGINEERING LEAD	DRAWN BY
L. EDWARDS	
REVISED 02/19/19	TR-1.d
SCALE 1:50	

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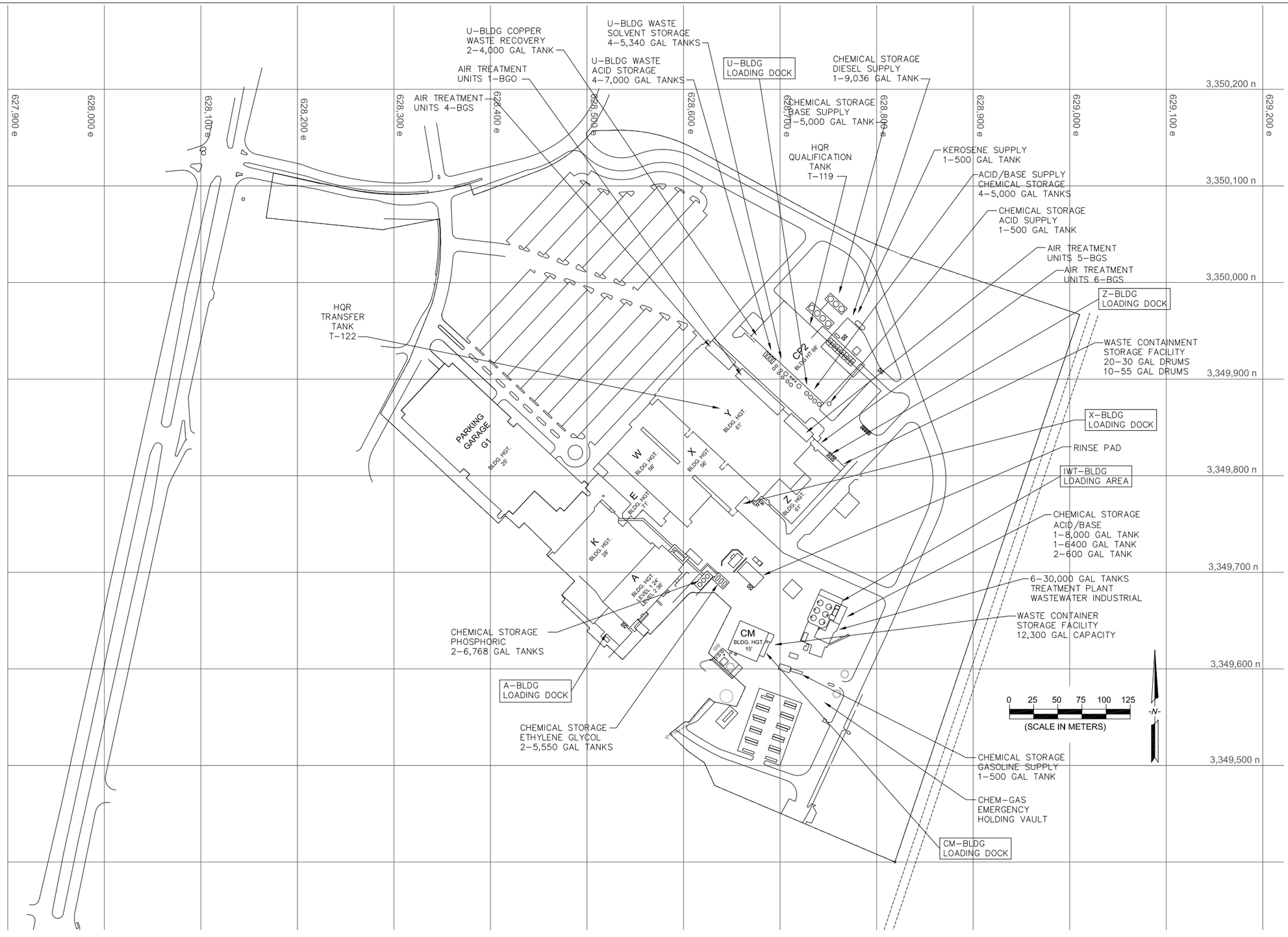

NXP ED BLUESTEIN FACILITY
SCALE: 1:50

NXP ED BLUESTEIN FACILITY
FACILITY MAP
DRAWING 2 OF 2

ENGINEERING LEAD	DRAWN BY
L. EDWARDS	
REVISED	
02/19/19	
SCALE	TR-1.d
1:50	

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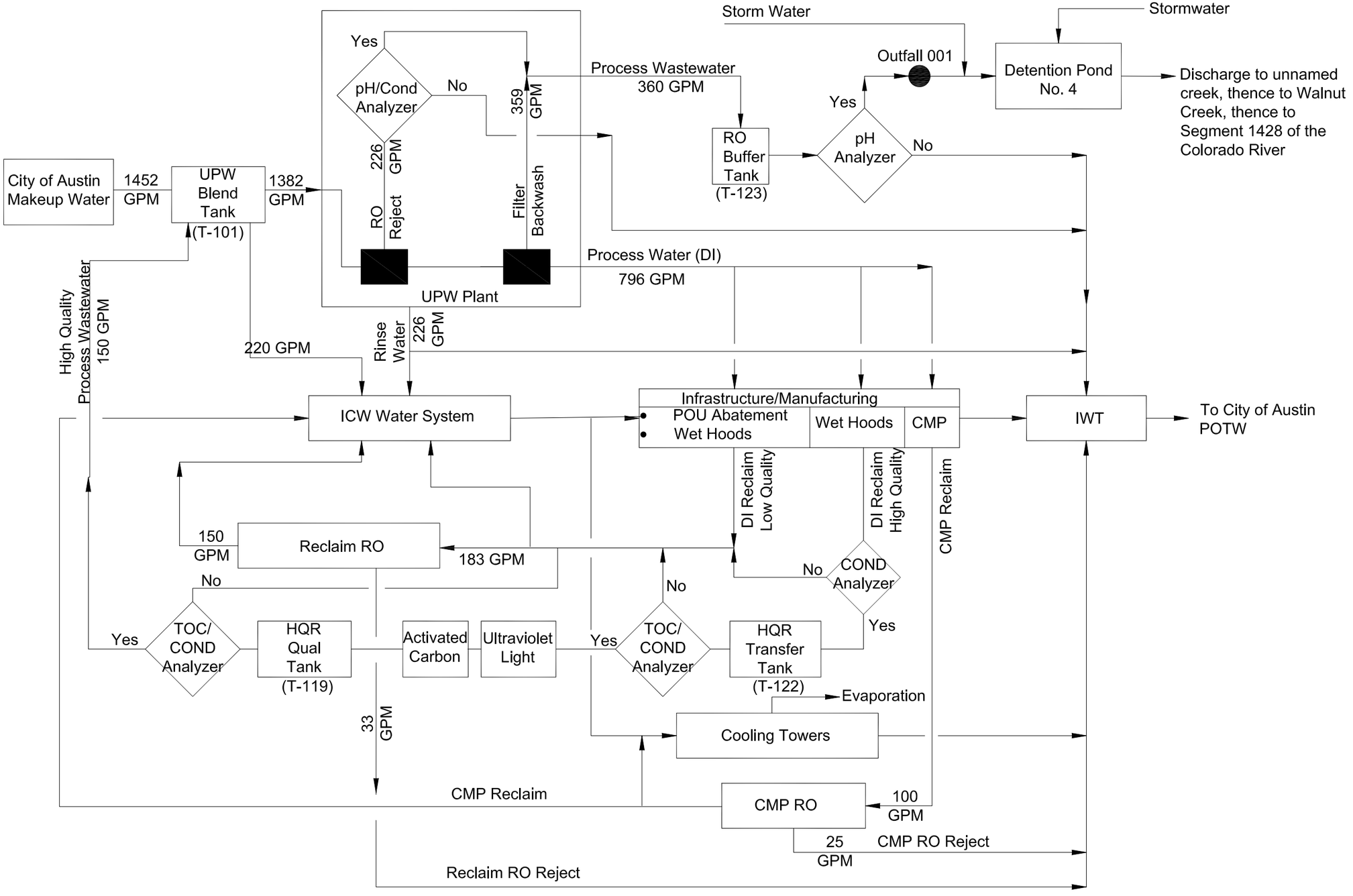
Attachment TR-2.b
Flow Diagram with Water Balance



PROCESS FLOW DIAGRAM FOR TPDES

NXP ED BLUESTEIN FACILITY
R.O. REJECT FLOW SCHEMATIC
WATER BALANCE

ENGINEERING LEAD	DRAWN BY
T. WAPPLER	K. CHAPMAN
REVISED 2/19/19	TR-2.b
S.R.# –	

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TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 602689218		RN 100843747

SECTION II: Customer Information

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

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

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

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

NXP USA, Inc.

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0800311038	12004431826	20-0443182	069450997

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address: 3501 Ed Bluestein Blvd

City	Austin	State	TX	ZIP	78721	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	Elizabeth.Cummings@nxp.com

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

(512) 933-3938		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

NXP Ed Bluestein Site

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3501 Ed Bluestein Blvd							
	City	Austin	**State**	TX	**ZIP**	78721	**ZIP + 4**	
24. County	Travis							

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

25. Description to Physical Location:	N/A				
26. Nearest City			**State**		**Nearest ZIP Code**
Austin			TX		78721

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	16	27.05	97	39	42.69

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
3674		334413	

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

Semiconductor Manufacturing

34. Mailing Address:	**3501 Ed Bluestein Blvd**							
	City	Austin	**State**	TX	**ZIP**	78721	**ZIP + 4**	

35. E-Mail Address:	

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

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other:
	WQ0002876000 Renewal			All Programs and IDS on the Next 2 Pages

SECTION IV: Preparer Information

40. Name:	Elizabeth Cummings	**41. Title:**	Environmental Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 933-3938		( ) -	Elizabeth.Cummings@NXP.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	NXP USA, Inc	**Job Title:**	Environmental Engineer
Name *(In Print):*	Elizabeth Cummings	**Phone:**	(512) 933- **3938**
Signature:	Elizabeth Cummings	**Date:**	11/4/24

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0000002876000

SOLICITUD. NXP USA, Inc., 3501 Ed Bluestein Boulevard, Austin, Texas 78721 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0002876000 (EPA I.D. No. TX 0101702) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 520,000 galones por día. La planta está ubicada 3501 Ed Bluestein Boulevard, en Austin, en el Condado de Travis, Texas. La ruta de descarga es del sitio de la planta hasta un afluente sin nombre, de allí a Walnut Creek y de allí a Colorado.
Río debajo del lago Lady Bird (anteriormente Town Lake). La TCEQ recibió esta solicitud el 15 de octubre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en 1161 Angelina Street, Austin, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.661944,30.274166&level=18
AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o

hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

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

limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del NXP USA, Inc. a la dirección indicada arriba o llamando a Elizabeth Cummings al 512.933.3938.

Fecha de emisión _____ *[Date notice issued]*

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): 9/24/2024-10/14/24. Sampling for Dissolved Oxygen (DO) was delayed 2 weeks due to not having the appropriate test kit. Sample 1 and Sample 2 in the table are blank for that reason, but the DO was sampled the 3rd and 4th week indicated in Table 1 and the 2 weeks following all other samples. The DO independent samples are as follows: DO: 10/24/24 6 ppm, 10/31/24 5 ppm. DO sampling dates: 10/08/24-10/31/24.

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

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

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** Click to enter text.

TABLE 1 and TABLE 2 (Instructions, Page 58)

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

Table 1 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
BOD (5-day)	<1.00	1.00	2.00	3.00
CBOD (5-day)	<1.00	<1.00	<1.00	<1.00
Chemical oxygen demand	27.0	27.1	27.5	22.8
Total organic carbon	10.6	7.95	8.40	10.4
Dissolved oxygen			7	5
Ammonia nitrogen	0.204	<0.100	0.329	0.116
Total suspended solids	4.31	<2.40	<2.33	<2.38
Nitrate nitrogen	2.03	1.91	2.00	2.35
Total organic nitrogen	0.861	1.11	1.27	2.87
Total phosphorus	1.44	1.21	1.56	1.70

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Oil and grease	2.40	3.01	<1.40	2.21
Total residual chlorine	1.2	1.2	1.19	1.17
Total dissolved solids	1160	1060	1050	1040
Sulfate	326	246	210	274
Chloride	259	242	209	252
Fluoride	2.43	2.13	2.15	1.72
Total alkalinity (mg/L as CaCO3)	131	148	166	160
Temperature (˚F)	82.2	83.1	81.7	80.8
pH (standard units)	7.06	7.26	7.3	7.26

Table 2 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total	<10.0	<10.0	<10.0	<10.0	2.5
Antimony, total	<0.800	<0.800	<0.800	<0.800	5
Arsenic, total	2.99	2.80	2.80	2.75	0.5
Barium, total	48.6	35.6	35.6	31.2	3
Beryllium, total	<0.300	<0.300	<0.300	<0.300	0.5
Cadmium, total	<0.300	<0.300	<0.300	<0.300	1
Chromium, total	<2.00	<2.00	<2.00	<2.00	3
Chromium, hexavalent	<3.00	<3.00	<3.00	<3.00	3
Chromium, trivalent	<2.00	<2.00	<2.00	<2.00	N/A
Copper, total	<2.00	<2.00	<2.00	2.56	2
Cyanide, available	<0.01mg/L	<0.01mg/L	<0.01mg/L	<0.01mg/L	2/10
Lead, total	<0.300	<0.300	<0.300	<0.300	0.5
Mercury, total	<0.00128	<0.00128	<0.00128	<0.00128	0.005/0.0005
Nickel, total	<3.00	<3.00	<3.00	<3.00	2
Selenium, total	<2.00	<2.00	<2.00	<2.00	5
Silver, total	<1.00	<1.00	<1.00	<1.00	0.5
Thallium, total	<0.500	<0.500	<0.500	<0.500	0.5
Zinc, total	18.0	<2.00	2.01	2.99	5.0

TABLE 3 (Instructions, Page 58)

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

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

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

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Acrylonitrile	<1.00	<1.00	<1.00	<1.00	50
Anthracene	<0.953	<0.948	<0.978	<0.950	10
Benzene	<0.300	<0.300	<0.300	<0.300	10
Benzidine	<0.953	<0.948	<0.978	<0.950	50
Benzo(a)anthracene	<0.953	<0.948	<0.978	<0.950	5
Benzo(a)pyrene	<0.953	<0.948	<0.978	<0.950	5
Bis(2-chloroethyl)ether	<0.953	<0.948	<0.978	<0.950	10
Bis(2-ethylhexyl)phthalate	<2.86	<2.84	<2.93	<2.85	10
Bromodichloromethane [Dichlorobromomethane]	24.3	31.2	29.1	30.2	10
Bromoform	8.64	11.2	12.3	11.8	10
Carbon tetrachloride	<0.300	<0.300	<0.300	<0.300	2
Chlorobenzene	<0.300	<0.300	<0.300	<0.300	10
Chlorodibromomethane [Dibromochloromethane]	29.7	34.2	38.8	38.3	10
Chloroform	17.3	21.0	18.5	17.0	10
Chrysene	<0.953	<0.948	<0.978	<0.950	5
m-Cresol [3-Methylphenol]	<1.91	<1.90	<1.96	<1.90	10
o-Cresol [2-Methylphenol]	<1.91	<1.90	<1.96	<1.90	10
p-Cresol [4-Methylphenol]	<1.91	<1.90	<1.96	<1.90	10
1,2-Dibromoethane	<0.300	<0.300	<0.300	<0.300	10
m-Dichlorobenzene [1,3-Dichlorobenzene]	<0.300	<0.300	<0.300	<0.300	10
o-Dichlorobenzene [1,2-Dichlorobenzene]	<0.300	<0.300	<0.300	<0.300	10
p-Dichlorobenzene [1,4-Dichlorobenzene]	<0.300	<0.300	<0.300	<0.300	10
3,3'-Dichlorobenzidine	<0.953	<0.948	<0.978	<0.950	5
1,2-Dichloroethane	<0.300	<0.300	<0.300	<0.300	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
1,1-Dichloroethene [1,1-Dichloroethylene]	<0.300	<0.300	<0.300	<0.300	10
Dichloromethane [Methylene chloride]	<2.50	<2.50	<2.50	<2.50	20
1,2-Dichloropropane	<0.300	<0.300	<0.300	<0.300	10
1,3-Dichloropropene [1,3-Dichloropropylene]	<0.300	<0.300	<0.300	<0.300	10
2,4-Dimethylphenol	<0.953	<0.948	<0.978	<0.950	10
Di-n-Butyl phthalate	<2.86	<2.84	<2.93	<2.85	10
Ethylbenzene	<0.300	<0.300	<0.300	<0.300	10
Fluoride	2.43	2.13	2.15	1.72	500
Hexachlorobenzene	<0.953	<0.948	<0.978	<0.950	5
Hexachlorobutadiene	<0.953	<0.948	<0.978	<0.950	10
Hexachlorocyclopentadiene	<0.953	<0.948	<0.978	<0.950	10
Hexachloroethane	<0.953	<0.948	<0.978	<0.950	20
Methyl ethyl ketone	<5.00	<5.00	<5.00	<5.00	50
Nitrobenzene	<0.953	<0.948	<0.978	<0.950	10
N-Nitrosodiethylamine	<1.91	<1.90	<1.96	<1.90	20
N-Nitroso-di-n-butylamine	<0.953	<0.948	<0.978	<0.950	20
Nonylphenol	<66.7	<66.4	<68.4	<66.5	333
Pentachlorobenzene	<0.953	<0.948	<0.978	<0.950	20
Pentachlorophenol	<0.953	<0.948	<0.978	<0.950	5
Phenanthrene	<0.953	<0.948	<0.978	<0.950	10
Polychlorinated biphenyls (PCBs) (**)	<0.0956	<0.0950	<0.0946	<0.0948	0.2
Pyridine	<0.953	<0.948	<0.978	<0.950	20
1,2,4,5-Tetrachlorobenzene	<0.953	<0.948	<0.978	<0.950	20
1,1,2,2-Tetrachloroethane	<0.300	<0.300	<0.300	<0.300	10
Tetrachloroethene [Tetrachloroethylene]	<0.600	<0.600	<0.600	<0.600	10
Toluene	<0.600	<0.600	<0.600	<0.600	10
1,1,1-Trichloroethane	<0.300	<0.300	<0.300	<0.300	10
1,1,2-Trichloroethane	<0.300	<0.300	<0.300	<0.300	10
Trichloroethene [Trichloroethylene]	<0.600	<0.600	<0.600	<0.600	10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
2,4,5-Trichlorophenol	<0.953	<0.948	<0.978	<0.950	50
TTHM (Total trihalomethanes)	80.0	97.6	98.7	97.3	10
Vinyl chloride	<0.300	<0.300	<0.300	<0.300	10

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

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

TABLE 4 (Instructions, Pages 58-59)

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

a. **Tributyltin**

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

☐ Yes ☒ No

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

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

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

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

☐ Facilities engaged in wood preserving.

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

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

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

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

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

c. E. coli (discharge to freshwater)

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

☐ Yes ☐ No

Domestic wastewater is/will be discharged.

☐ Yes ☐ No

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

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

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

TABLE 5 (Instructions, Page 59)

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

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

☒ N/A

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

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

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

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

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

Table 6 for Outfall No.: 001 **Samples are (check one): ☐ Composite ☒ Grab**

Pollutants	Believed Present	Believed Absent	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)	MAL (µg/L)*
Bromide	☒	☐	0.691	0.497	0.607	0.599	400
Color (PCU)	☐	☒	-	-	-	-	—
Nitrate-Nitrite (as N)	☒	☐	2.03	1.91	2.00	2.35	—
Sulfide (as S)	☒	☐	<0.050	<0.0500	<0.0500	<0.0500	—
Sulfite (as SO3)	☐	☒	-	-	-	-	—
Surfactants	☐	☒	-	-	-	-	—
Boron, total	☒	☐	0.179	0.204	0.21	0.237	20
Cobalt, total	☐	☒	-	-	-	-	0.3
Iron, total	☒	☐	<0.05	<0.05	<0.05	<0.05	7
Magnesium, total	☒	☐	68.2	62	73	70.3	20
Manganese, total	☒	☐	<0.002	<0.002	<0.002	<0.002	0.5
Molybdenum, total	☐	☒	-	-	-	-	1
Tin, total	☒	☐	<0.003	<0.003	<0.003	<0.003	5
Titanium, total	☒	☐	<0.003	<0.003	<0.003	<0.003	30

TABLE 7 (Instructions, Page 60)

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

☒ N/A

Table 7 for Applicable Industrial Categories

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

* Test if believed present.

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

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

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

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

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

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

* Indicate units if different from µg/L.

Table 9 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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

* Indicate units if different from µg/L.

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

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

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

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

* Indicate units if different from µg/L.

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

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

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

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

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

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

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

Description: Click to enter text.

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

- ☐ Yes ☒ No

Description: Click to enter text.

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

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

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

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

TABLE 13 (HAZARDOUS SUBSTANCES)

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

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Table 13 for Outfall No.: N/A **Samples are (check one): ☐ Composite ☐ Grab**

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