

This file contains the following documents:

- 1. Summary of application (in plain language)
 - English
 - Alternative Language (Spanish)
- 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
 - Alternative Language (Spanish)
- 3. Second notice (NAPD-Notice of Preliminary Decision)
 - Enalish
 - Alternative Language (Spanish)
- 4. Application materials *
- 5. Draft permit *
- 6. Technical summary or fact sheet *
- * **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.



Este archivo contiene los siguientes documentos:

- 1. Resumen de la solicitud (en lenguaje sencillo)
 - Inglés
 - Idioma alternativo (español)
- 2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
- 3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
 - Idioma alternativo (español)
- 4. Materiales de la solicitud **
- 5. Proyecto de permiso **
- 6. Resumen técnico u hoja de datos **
- ** **NOTA:** Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud, el proyecto de permiso, y los resumen técnico u hoja de datos están disponibles para revisión en la ubicación de consulta pública que se indica en el NAPD.

Section 15. Plain Language Summary (Instructions Page 40)

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. City of Houston (CN600128995) operates the Northwest Wastewater Treatment Facility (RN101610665). an activated sludge – extended aeration wastewater treatment facility. The facility is located at 5423 Mangum Road, in Houston, Harris County, Texas 77091.

This application is for a permit renewal to discharge an annual average flow of 18,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand $(CBOD_5)$, total suspended solids (TSS), ammonia-nitrogen (NH₃N), and *E. coli*. Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic wastewater is treated by activated sludge – extended aeration. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, and chlorine contact basins for disinfection. Solids from the facility are pumped or trucked offsite for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Northwest Wastewater Treatment Facility (RN101610665), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 5423 Mangum Road, Houston, en el condado de Harris, Texas 77091.

Esta solicitud es para la renovación para descargar un flujo medio anual de 18,000,000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

Se espera que los vertidos de la instalación contengan demanda bioquímica de oxígeno carbónico de cinco días ($CBOD_5$), sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH_3 -N), y Escherichia coli (E. coli). Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7 - Análisis de Contaminantes del Efluente Tratado y en la hoja de trabajo doméstica 4.0. Las aguas residuales domésticas se tratan con lodos activados - aireación prolongada. Las unidades de tratamiento incluyen pantalla de barra para tratamiento preliminar; cuencas de aireación y canales de licor mixto para tratamiento biológico, clarificadores secundario para la sedimentación de sólidos, y cuenca de contacto con el cloro para la desinfección. Sólidos de la instalación se bombean o son transportadas en camión para más tratamiento y eliminación.

Texas Commission on Environmental Quality



COMBINED

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT (NORI)

AND

NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER (NAPD)

RENEWAL

PERMIT NO. WQ0010495076

APPLICATION AND PRELIMINARY DECISION. City of Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495076, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 18,000,000 gallons per day. TCEQ received this application on December 1, 2023.

This combined notice is being issued to correct the technical contact from what was previously stated in the NORI issued February 7, 2024.

The facility is located at 5423 Mangum Road, in the City of Houston, Harris County, Texas 77091. The treated effluent is discharged to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City of Houston Public Works Building, 10500 Bellaire Boulevard, Houston, Texas.

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds 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 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 a contested case hearing or reconsideration of the Executive Director's decision. A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be 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.

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. 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 City of Houston at the address stated above or by calling **Mr. Walid Samarneh**, **P.E.**, at **832-395-5771**.

Issuance Date: June 11, 2025

Comisión De Calidad Ambiental Del Estado De Texas



COMBINADO

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

 \mathbf{Y}

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA ÉL PERMISO TPDES PARA AGUAS RESIDUALES MUNICIPALES (NAPD)

RENOVACIÓN

PERMISO NO. WQ0010495076

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para una renovación del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0010495076, cuál autoriza la descarga de malgaste agua tratados domésticos en un flujo anual a no exceder 18,000,000 galones por día. La TCEQ recibió esta solicitud el 1 de diciembre de 2023.

Este aviso combinado se emite para corregir el contacto técnico de lo que se indicó anteriormente en el NORI emitido el 7 de febrero de 2024.

La facilidad está ubicada en 5423 Mangum Road, Condado de Harris, Texas, 77091. El efluente tratado es descargado al riachuelo Cole Creek; de allí al pantano Whiteoak Bayou por encima de la marea en la cuenca del Segmento No. 1017 del río San Jacinto River. Los usos designados para el Segmento No. 1017 el uso principal es la recreación de contacto y uso limitado de la vidas acuáticas. 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.tceg.texas.gov/LocationMapper/?marker=-95.463055,29.844722&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que, si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en el Departamento de Trabajos Públicos de Houston, Operaciones de Wastewater edificio, 10500 Bellaire Boulevard, Houston, Condado de Harris, Texas.

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 todos 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. La TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

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

Todos los comentarios escritos del público y los pedidos para una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o por el internet a www.tceq.texas.gov/goto/comment durante los 30 días después de la publicación del aviso.

INFORMACION DISPONIBLE ONLINE. Para más detalles sobre el estado de la aplicación, visite la base de datos integrada del Comisario al www.tceq.texas.gov/goto/cid. Buscar en la base de datos usando el número de permiso para esta aplicación, que se puede encontrar al inicio de este aviso.

AGENCIA CONTACTOS Y INFORMACIÓN. Todos los comentarios escritos del público y los pedidos para una reunión deben ser por el internet www.tceq.texas.gov/goto/comment o por escrito a la Oficina del Secretario Principal, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que usted envíe formará parte del registro del TCEQ, incluidas las direcciones de correo electrónico. 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/goto/pep. Para información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del La Ciudad de Houston a la dirección indicada arriba o llamando a Sr. Walid Samarneh, P.E., al 832-395-5771.

Fecha de emission: 11 de junio de 2025



TPDES PERMIT NO. WQ0010495076 [For TCEQ office use only - EPA I.D. No. TX0063011]

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

This is a renewal that replaces TPDES Permit No. WQ0010495076 issued on June 14, 2021.

PERMIT TO DISCHARGE WASTES

under provisions of Section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code

City of Houston

whose mailing address is

10500 Bellaire Boulevard Houston, Texas 77072

is authorized to treat and discharge wastes from the Northwest Wastewater Treatment Facility, SIC Code 4952

located at 5423 Mangum Road, in the City of Houston, Harris County, Texas 77091

to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin

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

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

ISSUED DATE:		
		For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

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

The annual average flow of effluent shall not exceed 18 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 56,944 gallons per minute.

Effluent Characteristic	Discharge I	Discharge Limitations			nitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Dail Measurement Frequency	ly Avg. & Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (1,501)	15	25	35	One/day	Composite
Total Suspended Solids	15 (2,252)	25	40	60	One/day	Composite
Ammonia Nitrogen	3 (450)	5	10	15	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	63	N/A	200	N/A	Five/week	Grab

- 2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
- 3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample.
- 4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
- 5. Effluent monitoring samples shall be taken at the following location(s): CBOD₅, TSS, NH₃-N, *E. coli* and Cl₂ residual shall be taken after obtaining a 20-minute detention time in the chlorination basin and prior to dechlorination. dissolved oxygen, Cl₂ residual, and pH shall be taken after the final treatment unit.
- 6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored once per day by grab sample.
- 7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

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DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

- a. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

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

- e. Bacteria concentration (*E. coli* or Enterococci) Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
- g. Daily maximum loading (lbs/day) the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

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

- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

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

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Compliance

Monitoring Team of the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times: if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Compliance Monitoring Team of the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances

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

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. One hundred micrograms per liter (100 μ g/L);
 - ii. Two hundred micrograms per liter (200 μ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. Five hundred micrograms per liter (500 μ g/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

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

- 11. All POTWs must provide adequate notice to the Executive Director of the following:
 - a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
 - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
 - c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

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

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

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

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

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
- 9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
- 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
- 11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
 - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

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

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

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
- 3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	Ceiling Concentration
	(Milligrams per kilogram)*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

^{*} Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

<u>Alternative 2</u> - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC \S 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC \S 312.82(a)(2)(C)(iv-vi) for specific information; or

<u>Alternative 4</u> - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids

criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

<u>Alternative 2</u> - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

<u>Alternative 3</u> - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 - 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 -

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure - annually (TCLP) Test
PCBs - annually

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of biosolids (*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

1,500 to less than 15,000 Once/Two Months

15,000 or greater Once/Month

(*) The amount of bulk biosolids applied to the land (dry wt. basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

	Cumulative Pollutant Loading Rate
<u>Pollutant</u>	(pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

	Monthly Average
	Concentration
<u>Pollutant</u>	(<u>milligrams per kilogram</u>)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

^{*}Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

- 1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
- 2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met
- 5. The following certification statement:

"I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 6. PCB concentration in sludge or biosolids in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.

- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

- The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
- 2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 3. Annual sludge or biosolids production in dry tons/year.
- 4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
- 5. Amount of sludge or biosolids transported interstate in dry tons/year.
- 6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- 7. Identity of hauler(s) and transporter registration number.
- 8. Owner of disposal site(s).
- 9. Location of disposal site(s).
- 10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
- 2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

- 1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
- 2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
- 3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 12) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. the annual sludge or biosolids production;
- 3. the amount of sludge or biosolids transported;
- 4. the owner of each receiving facility;
- 5. the location of each receiving facility; and
- 6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category A facility must be operated by a chief operator or an operator holding a Class A license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

- 2. The facility is not located in the Coastal Management Program boundary.
- 3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.
- 4. The permittee has submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3) (See Attachment A.)
- In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, five/week may be reduced to three/week. A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148). The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
- 6. In addition, the permittee is also authorized to transport sludge from the wastewater treatment facility, by a licensed hauler or via pipeline, to another of the permittee's permitted wastewater treatment plants, to be treated and then disposed of with the sludge from the plant accepting the sludge.

The permittee shall keep records of all sludge removed from the wastewater treatment plant and these records shall include the following information:

- a. The volume of sludge transported to another treatment plant;
- b. The date(s) that sludge was transported;
- c. The identity of haulers, if applicable; and
- d. The TCEQ permit number, and location of the wastewater treatment plant to which the sludge is transported.

These records shall be maintained on a monthly basis and shall be reported to the TCEQ Regional Office (MC Region 12) and the TCEQ Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Houston** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **November 27**, 1984, and modified on **February 26**, 1993, and **March 11**, 2020 (nonsubstantial Streamlining Rule modification), and modified on **June 14**, 2021 (TBLLs).

The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.
- c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

- (1) Statement of duration (in no case more than five years):
- (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
- (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
- Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part

- 403, categorical pretreatment standards, local limits, and State and local law;
- (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
- (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
- e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).
- f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).
- g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.
- h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
- 2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either:

- 1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; or
- 2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 [rev. 10/14/05], and applicable state and local law, including an Enforcement Response Plan and

Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee [according to 40 CFR §122.41(k)].

Upon approval by the Executive Director of a substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §\$403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per three months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per three months** on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **November** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

In addition, each **November** the permittee shall submit an updated pretreatment program

annual status report, in accordance with 40 CFR §§403.12(i) [rev. 10/22/15] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:
 - (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.
 - (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
 - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [rev. 10/22/15] and (3);
 - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
 - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
 - (3) Control mechanism status.
 - Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
 - Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
 - Include the type of general control mechanisms; and
 - Report all NSCIU annual evaluations performed, as applicable.
 - (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
 - Total number of inspections performed; and
 - Total number of sampling events conducted.
 - (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) no violations during the pretreatment year reporting period;
- Non-compliant (NC) one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) in accordance with requirements described above in this section.
- (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
- c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.
- d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.
- e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.
- f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.
- g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.)
- h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.
- i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program

annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

- 5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/yea	r:,	to, _	
TPDES Permit No.:	Permittee:	Treatment Plant:	

PRE	PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS¹ LIST															
e				CONTROL MECHANISM				he CA	the CA		C = (uring t Re Compli	PLIANO he Pret porting ant, NO ificant	reatme Period C = Nor	ent Ye 14 ncomp	oliant,
r Name	Code			or NR			or N)	ed by the			RI	EPORT	S			
Industrial User	SIC or NAICS (CIU2	$ m Y/N~or~NR^5$	IND or GEN or	IND or GEN or NR Last Action ⁶ TBLLs or TBLLs only ⁷		New User 3 (Y	Times Inspected	Times Sampled by	BMR	90-Day	Semi- Annual	Self- Monitoring ⁸	NSCIU Certifications	Effluent Limits	Narrative Standards

- Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.
- 2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).
- 3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.
- 4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).
- 5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.
- 6 Permit or NSCIU evaluations as applicable.
- According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.
- 8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TCEQ-20218a TPDES Pretreatment Program Annual Report Form

Revised July 2007

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month/yea	ır:	, to	,
TPDES Permit No:	Permittee:	Treatment Plant: _	

	INDUSTRIAL USER INVENTORY MODIFICATIONS														
FACILITY NAME, ADDRESS	ADD, CHANGE, DELETE	IF DELETION: Reason For													
AND CONTACT PERSON	(Including categorical reclassification to NSCIU or MTCIU)	Deletion	PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE 9 (In gpd) R = Regulated U = Unregulated T = Total										
				not present)											

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

TCEQ-20218b TPDES Pretreatment Program Annual Report Form

Revised July 2007

Revised July 2007

TPDES P1	retre	atm	ent Pr	ogran	n An	nua	l Rep	ort	For	m for l	Enfo	rcen	nent	Action	ns Taken
R	epo	rting	mont	th/yea	r:			,		to _				,	
TPDES Pe	ermit	t No:	l		_Pe	rmit	tee:			_Treat	tmer	ıt Pl	ant:		
Overall SN Reporting															
	ľ	Vonc	ompli	ant In	dus	trial	Use	rs -]	Enf	orceme	ent A	ctio	ns T	aken	
	Nat	ure o	of Viola	tion 11	Νü				ns	d (Do arge)		nplia chedu		turned or N)	
Industrial User Name	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	Taken OD Schedule Surcharge)								Date Due	Current Status Returned to Compliance: (Y or N)	Comments
					<u> </u>	1	1	1	1		<u> </u>	<u> </u>	<u> </u>		<u> </u>
	Pi Ro N	eport arrat ecify	ing Re ive Sta	equiren indards rate nu	nents s ımbe	s [W]	END	B-PS	SNC]					rical St	andards)

TCEQ-20218c TPDES Pretreatment Program Annual Report Form

Page 44

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results¹

Reporting m	onth/year:	,to
TPDES Permit No.:	Permittee:_	Treatment Plant:

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	(Actual Concentration			Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		Effluent Measured in μg/L (Actual Concentratio or < MAL) ⁴				
		Date	Date	Date	Date			Date	Date	Date	Date	
METALS, CYANIDE AND I	PHENOLS											
Antimony, Total												
Arsenic, Total												
Beryllium, Total												
Cadmium, Total												
Chromium, Total												
Chromium (Hex)												
Chromium (Tri)⁵												
Copper, Total												
Lead, Total												
Mercury, Total												
Nickel, Total												
Selenium, Total												
Silver, Total												
Thallium, Total												
Zinc, Total												

PRETREATMENT	1		Infl	uent		Average	Daily		Effl	uent			
POLLUTANT	MAHL, if Applicable in lb/day	(Actual Concentration				Influent % of the MAHL ²	$ \begin{array}{c c} Average & Measured i \\ Effluent & \\ Limit & (Actual Conce \\ (\mu g/L)^3 & or < MA \\ \end{array} $			ncentra	entration		
		Date	Date	Date	Date			Date	Date	Date	Date		
Cyanide, Available ⁶													
Cyanide, Total													
Phenols, Total													
VOLATILE COMPOUNDS	1					ll.							
Acrolein													
Acrylonitrile													
Benzene													
Bromoform							See TTHM						
Carbon Tetrachloride													
Chlorobenzene													
Chlorodibromomethane							See TTHM						
Chloroethane													
2-Chloroethylvinyl Ether													
Chloroform							See TTHM						
Dichlorobromomethane							See TTHM						
1,1-Dichloroethane													
1,2-Dichloroethane													
1,1-Dichloroethylene													
1,2-Dichloropropane													

PRETREATMENT	PROGRAM	INFL	UENT	AND	EFFL	UENT MO	ONITORI	NG R	ESUL	ΓS	
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in μg/L (Actual Concentration or < MAL)			Average Influent % of the MAHL ²	$ \begin{array}{c cccc} Daily & Effluen \\ Average & Measured in \\ Effluent & \\ Limit & (Actual Concest \\ (\mu g/L)^3 & or < MAI \end{array} $			d in μg ncentra	μg/L ntration	
		Date Date Date Date					Date	Date	Date	Date	
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS	•			,,							
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol											

PRETREATMENT	PROGRAM 1	INFL	UENT	AND	EFFL	LUENT MO	ONITORI	NG R	ESUL	ΓS	
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in μg/L (Actual Concentration or < MAL)			Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Measured in μg/ Effluent Limit (Actual Concentra				
		Date	Date	Date	Date			Date	Date	Date	Date
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPO	UNDS								1		
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2- Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											

PRETREATMEN	T PROGRAM	INFL	UENT	AND	EFFL	UENT MO	ONITORI	NG R	ESUL	ΓS	
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)			Average Influent % of the MAHL ²	$ \begin{array}{c c} Daily & Effluent \\ Average & Measured in \\ Effluent \\ Limit & (Actual Concen \\ (\mu g/L)^3 & or < MAL) \end{array} $			d in μg ncentra	ration	
		Date	Date	Date	Date			Date	Date	Date	Date
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS													
POLLUTANT	MAHL, if Applicable in lb/day	(Actual Concentration			Average Influent % of the MAHL ²	$ \begin{array}{c c} Daily & Effluent \\ Average & Measured in \mu \\ Effluent \\ Limit \\ (\mu g/L)^3 & (Actual Concent) \\ or < MAL) \end{array} $			d in μg ncentra				
		Date	Date	Date	Date			Date	Date	Date	Date		
Hexachloro- cyclopentadiene													
Hexachloroethane													
Indeno(1,2,3-cd)pyrene													
Isophorone													
Naphthalene													
Nitrobenzene													
N-Nitrosodimethylamine													
N-Nitrosodi-n-Propylamine													
N-Nitrosodiphenylamine													
Phenanthrene													
Pyrene													
1,2,4-Trichlorobenzene													
PESTICIDES													
Aldrin													
Alpha- hexachlorocyclohexane (BHC)													
beta-BHC													
gamma-BHC (Lindane)													
delta-BHC								_					
Chlordane													

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in μg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in μg/L (Actual Concentration or < MAL) ⁴				
		Date Date Date Date				Date	Date	Date	Date			
4,4-DDT												
4,4-DDE												
4,4-DDD												
Dieldrin												
alpha-Endosulfan												
beta-Endosulfan												
Endosulfan Sulfate												
Endrin												
Endrin Aldehyde												
Heptachlor												
Heptachlor Epoxide												
Polychlorinated biphenols (PCBs) The sum of PCB concentrations not to exceed daily average value.												
PCB-1242							See PCBs					
PCB-1254							See PCBs					
PCB-1221							See PCBs					
PCB-1232							See PCBs					
PCB-1248							See PCBs					
PCB-1260							See PCBs					

PRETREATMENT	Γ PROGRAM	INFL	UENT	AND	EFFL	LUENT MO	ONITORI	NG R	ESUL	ГS	
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in μg/L (Actual Concentration or < MAL)			Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in μg/L (Actual Concentration or < MAL) ⁴				
		Date Date Date Date				Date	Date	Date	Date		
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC PO	LLUTANTS R	EGUI	ATEI) UNI	DER 3	o TAC CH	APTER 3	07	ı	ı	
Aluminum											
Barium											
Bis(chloromethyl)ether 7											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol ⁸											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans 9											
Diuron											
Epichlorohydrin 9											
Ethylene glycol ⁹											
Fluoride											
Guthion											

PRETREATMENT	PROGRAM	INFL	UENT	AND	EFFL	UENT MO	ONITORI	NG RI	ESUL	ΓS		
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in μg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	verage afluent Average Effluent Limit (Actual C			fluent red in µg/L oncentration MAL) ⁴		
		Date	Date	Date	Date			Date	Date	Date	Date	
Hexachlorophene												
4,4-Isopropylidenediphenol (bisphenol A) ⁹												
Malathion												
Methoxychlor												
Methyl Ethyl Ketone												
Methyl tert-butyl-ether (MTBE) 9												
Mirex												
Nitrate-Nitrogen												
N-Nitrosodiethylamine												
N-Nitroso-di-n-Butylamine												
Nonylphenol												
Parathion												
Pentachlorobenzene												
Pyridine												
1,2-Dibromoethane												
1,2,4,5-Tetrachlorobenzene												
2,4,5-TP (Silvex)												
Tributyltin ⁹												
2,4,5-Trichlorophenol												
TTHM (Total												

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	(Acti	Effluent Measured in μg/L (Actual Concentration or < MAL) ⁴		
		Date	Date	Date	Date			Date	Date	Date	Date
Trihalomethanes)											

Endnotes:

- 1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).
- 2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

The % of the MAHL is to be calculated using the following formulas:

Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

Equation B: $L_\% = (L_{INF} / MAHL) \times 100$

Where:

 $L_{INF} = Current Average (Avg) influent loading in lb/day$

 C_{POLL} = Avg concentration in $\mu g/L$ of all influent samples collected during the

pretreatment year.

O_{WWTP} = Annual average flow of the WWTP in MGD, defined as the arithmetic

average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.

 $L_{\%} = \%$ of the MAHL

MAHL = Calculated MAHL in lb/day 8.34 = Unit conversion factor

- 3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.
- 4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.
- 5. Report result by subtracting Hexavalent Chromium from Total Chromium.
- 6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.
- 7. Hydrolyzes in water. Will not require permittee to analyze at this time.
- 8. EPA procedure not approved. Will not require permittee to analyze at this time.
- 9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

TCEQ-20218d TPDES Pretreatment Program Annual Report Form

Revised February 2020

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

- 1. Scope, Frequency, and Methodology
 - a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
 - b. The permittee shall conduct the following toxicity tests using the test organisms, procedures and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
 - 1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
 - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 27%, 37%, 49%, 65%, and 100% effluent. The critical dilution, defined as 65% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
 - 1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

- and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.
- 2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
 - 1) a control mean survival of 80% or greater;
 - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
 - 3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
 - a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 5) a critical dilution CV% of 40 or less for young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test, unless statistically significant toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid;
 - 6) a percent minimum significant difference of 47 or less for water flea reproduction, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid; and
 - 7) a PMSD of 30 or less for fathead minnow growth, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid.

b. Statistical Interpretation

- 1) For the water flea survival and reproduction test, the statistical analyses used to determine the inhibition concentration of effluent that would cause a 25% reduction (IC25) in survival or mean young per female shall be as described in the methods manual referenced in Part 1.b.
- 2) For the fathead minnow larval survival and growth tests, the statistical analyses used to determine the IC25 in survival or growth shall be as

- described in the methods manual referenced in Part 1.b.
- 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) Most point estimates are derived from a mathematical model that assumes a continuous dose-response relationship. For any test result that demonstrates a non-continuous (threshold) response, or a non-monotonic dose-response relationship, the IC25 should be determined based on the method guidance manual referenced in Item 3.
- Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic dose-response relationship may be submitted, prior to the due date, for technical review of test validity and acceptability. The method guidance manual referenced in Item 3 will be used as the basis, along with best professional judgement, for making a determination of test validity and acceptability.

c. Dilution Water

- 1) Dilution water used in the toxicity tests shall be the receiving water collected at a point upstream of the discharge as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days);

- c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.
- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

- 1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
- 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
- 5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

- 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
- 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
- Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter T4P3B, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter T6P3B, report the IC25 for survival.
 - 3) For the water flea, Parameter T₅P₃B, enter a "1" if the IC₂₅ for reproduction is less than the critical dilution; otherwise, enter a "0."
 - 4) For the water flea, Parameter T7P3B, report the IC25 for reproduction.
 - 5) For the fathead minnow, Parameter T4P6C, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 6) For the fathead minnow, Parameter T6P6C, report the IC25 for survival.
 - 7) For the fathead minnow, Parameter T5P6C, enter a "1" if the IC25 for growth is less than the critical dilution; otherwise, enter a "0."
 - 8) For the fathead minnow, Parameter T7P6C, report the IC25 for growth.
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction

in the control.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any test that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.
 - If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.
- c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.
- d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.
- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- Specific Activities The TRE action plan shall specify the approach the 1) permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aguatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
- Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
 - 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

- any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
- 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
- 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
- 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates persistent significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction

- of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

		Date	Time		Date	Time	
Dates and Times Composites	No. 1	FROM:		TO:			
Collected	No. 2	FROM:		TO: _			
	No. 3	FROM:		TO:			
Test initiated:			am/pm				_date
Dilution water used:		Receiving wa	ter	Sy	nthetic I	Dilution water	

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

	Percent effluent								
REP	0%	27%	37%	49%	65%	100%			
A									
В									
С									
D									
Е									
F									
G									
Н									
I									
J									
Survival Mean									
Total Mean									
CV%*									

^{*}Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

PERCENT SURVIVAL

	Percent effluent						
Time of Reading	0%	27%	37%	49%	65%	100%	
24h							
48h							
End of Test		_	_		_		

1.	Is the IC25 for reproduction less than the critical dilution (65%)? YES NO
2.	Is the IC25 for survival less than the critical dilution (65%)? YES NO
3.	Enter percent effluent corresponding to each IC25 below:
	IC25 reproduction =%
	IC25 survival =%

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

			Date	Time			Date	Time
Dates and Times	No. 1	FROM:			 TO:			
Composites Collected	No. 2	FROM:			 TO: _			
	No. 3	FROM:			 TO: _			
Test initiated:				_am/pm _				date
Dilution water used:		Receiv	ing wat	er	_ Syntl	netic d	dilution	water

FATHEAD MINNOW GROWTH DATA

Effluent	Averaş	ge Dry We	Mean Dry CV%*				
Concentration	A	В	С	D	E	Weight	
0%							
27%							
37%							
49%							
65%							
100%	_			_	_		

^{*} Coefficient of Variation = standard deviation x 100/mean

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Percent Survival in replicat			icate cha	ambers	nbers Mean percent survival		CV%*		
Concentration	A	В	С	D	E	24h	48h	7 day	
0%									
27%									
37%									
49%									
65%									
100%				_			_		

^{*} Coefficient of Variation = standard deviation x 100/mean

1.	Is the IC25 for growth less than the critical dilution (65%)?	YES	NO
2.	Is the IC25 for survival less than the critical dilution (65%)?	YES	NO
3.	Enter percent effluent corresponding to each IC25 below:		
	IC25 growth =%		
	IC25 survival =%		

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in Part 1.a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency.

2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - 2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of o-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

- 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
- 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
 - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
 - 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. <u>Persistent Mortality</u>

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. <u>Toxicity Reduction Evaluation</u>

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining

- consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
 - 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates persistent significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee

may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.
- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Don	Percent effluent					
Time	Rep	0%	6%	13%	25%	50%	100%
	A						
	В						
o 4h	С						
24h	D						
	E						
	MEAN						

Enter perce	nt effluent cor	responding to	the LC50	below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

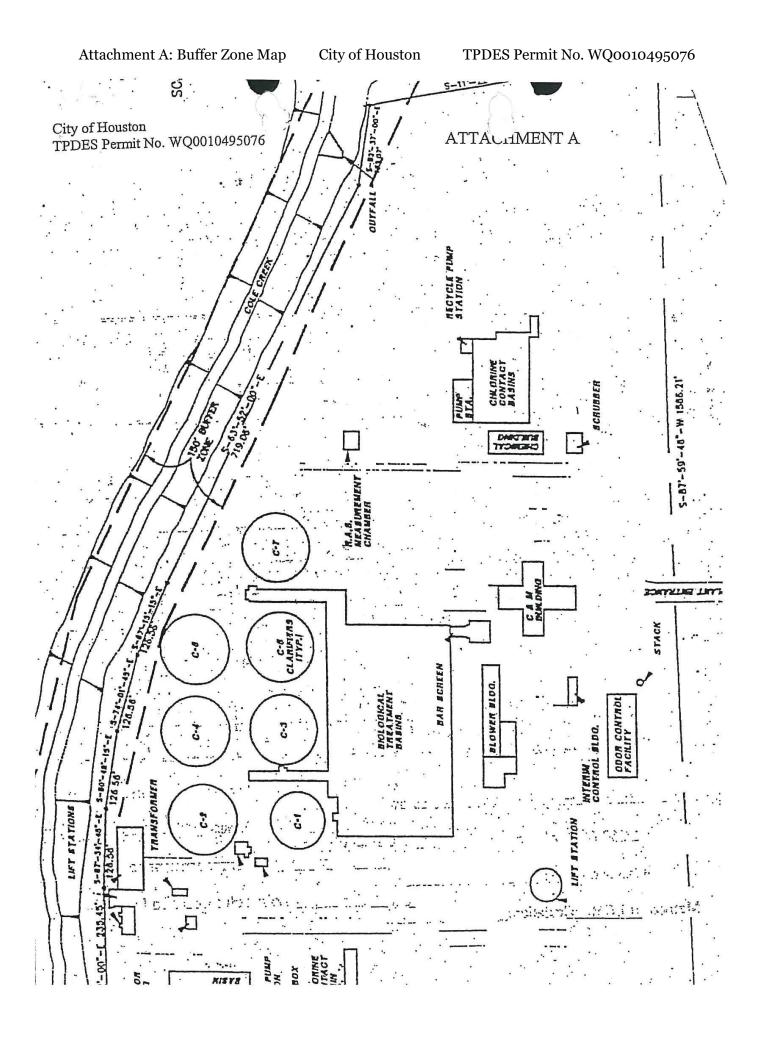
	Time	Date
Composite Sample Collected		
Test Initiated		_

PERCENT SURVIVAL

Time	Don	Percent effluent					
Time	Rep	0%	6%	13%	25%	50%	100%
	A						
	В						
o 4h	С						
24h	D						
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	MEAN						

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24 hour LC50 = _____% effluent



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495076, EPA I.D. No. TX0063011, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality

P.O. Box 13087

Austin, Texas 78711-3087

Applicant: City of Houston

10500 Bellaire Boulevard Houston, Texas 77072

Prepared By: Miguel A. Mercado

Municipal Permits Team

Wastewater Permitting Section (MC 148)

Water Quality Division

(512) 239-4547

Date: June 14, 2024

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 18 million gallons per day (MGD). The existing wastewater treatment facility serves a residential area in northwest Houston between the Interstate 610 Loop and Beltway 8.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 5423 Mangum Road, in the City of Houston, Harris County, Texas 77091.

Outfall Location:

Outfall Number	Latitude	Longitude	
001	29.844860 N	95.460813 W	

The treated effluent is discharged to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Northwest Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include bar screens, ten aeration basins, six final clarifiers, two chlorine contact chambers and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is pumped or hauled by a registered transporter to 69th Street Wastewater Treatment Facility, Permit No. WQ0010495090, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The Northwest WWTP receives significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period November 2021 through November 2023. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), and ammonia nitrogen (NH₃-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	Average of Daily Avg
Flow, MGD	8.8
CBOD ₅ , mg/l	2.3
TSS, mg/l	2.4
NH ₃ -N, mg/l	1.2
E. coli, CFU or MPN per 100 ml	1

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 18 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 56,944 gallons per minute.

<u>Parameter</u>	<u>30-Da</u>	<u> 30-Day Average</u>		<u>Daily</u>
			<u>Average</u>	<u>Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD_5	10	1,501	15	25
TSS	15	2,252	25	40
$\mathrm{NH_{3}} ext{-}\mathrm{N}$	3	450	5	10
DO (minimum)	4.0	N/A	N/A	N/A
E. coli, CFU or	63	N/A	N/A	200
MPN/100 ml				

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
$CBOD_5$	One/day
TSS	One/day
NH_3 - N	One/day
DO	One/day
E. coli	Five/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is pumped or hauled by a registered transporter to 69th Street Wastewater Treatment Facility, Permit No. WQ0010495090, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and

the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on **November 27**, **1984**, and modified on **February 26**, **1993**, and **March 11**, **2020** (nonsubstantial **Streamlining Rule modification**) and on **June 14**, **2021** (**TBLLs**). The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of **November** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either: (1) a **WRITTEN CERTIFICATION** that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs Reassessment Form No. TCEQ-20221], **OR** (2) a **WRITTEN NOTIFICATION** that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 [rev. 10/14/05] and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of the permit

Substantial modifications will be approved in accordance with 40 CFR §403.18, and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 27%, 37%, 49%, 65%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 65% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:

FRESHWATER

- (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
- (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, Pretreatment Requirements, and Biomonitoring sections of the draft permit have been updated.

E. coli bacteria limits have been continued in the draft permit in accordance with the recent amendments to 30 TAC Chapters 309 and 319. The bacteria limits in the draft permit are consistent with the requirements of the Total Maximum Daily Load (TMDL), Project No. 22, and any subsequent associated WQMP

updates.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

Texas Surface Water Quality Standards (TSWQS) at 30 TAC Chapter 307 allow for consideration of the mixing of effluent and receiving water when evaluating discharge compliance with water quality criteria for pH. The discharge authorized by this permit shall meet the TSWQS pH criterion for Segment No. 1017 of 6.5 to 9.0 standard units at the edge of the chronic mixing zone.

A mixing zone evaluation for pH is included within Attachment A of this Fact Sheet. The evaluation has demonstrated that the technology based pH limitations of 6.0 to 9.0 standard units will ensure compliance with the TSWQS pH criterion at the edge of the chronic mixing zone. See Attachment A of this Fact Sheet.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment No. 1017 of the San Jacinto River Basin. The designated uses for Segment No. 1017 are primary contact recreation and limited aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

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

Segment No. 1017 is not currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 589 mg/l total dissolved solids (TDS), 100 mg/l sulfate, and 134 mg/l chloride present in the effluent. The segment criteria for Segment No. 1017 are 600 mg/l for TDS, 65 mg/l for sulfate, and 110 mg/l for chlorides. Based on dissolved solids screening, the Standards Implementation Team recommendation, and information received from the applicant on July 3, 2024, no monitoring requirements were placed in the draft permit for TDS, chloride, or sulfate. See Attachment B of this Fact Sheet.

The total maximum daily load (TMDL) Project No. 22, Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E, has been approved for this segment.

On April 8, 2009, the TCEQ adopted the TMDL, and the EPA approved it on June 11, 2009. The TMDL addresses elevated levels of bacteria in multiple segments and assessment units of these bayous and their tributaries. The waste load allocation (WLA) for wastewater treatment facilities was established as the permitted flow for each facility multiplied by one-half the geometric mean criterion for bacteria. Future growth from existing or new permitted sources is not limited by these TMDLs as long as the sources do not exceed the limits of one-half the bacteria geometric mean criterion for *E. coli*. To ensure that effluent limitations for this discharge are consistent with the WLAs provided in the TMDL, a concentration based effluent limitation for *E. coli* of 63 MPN per 100 ml has been continued in the draft permit.

The TMDL Project No. 1, Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System, has been withdrawn, and is no longer applicable to Segment No. 1017.

The effluent limitations and conditions in the draft permit comply with

EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The proposed effluent limitations are contained in the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

Acute freshwater criteria are applied at the edge of the zone of initial

dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Whiteoak Bayou Above Tidal. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Whiteoak Bayou Above Tidal.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 18 MGD and the 7-day, 2-year (7Q2) flow of 14.98 cubic feet per second (cfs) for Whiteoak Bayou Above Tidal. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 18 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %: 88.15% Chronic Effluent %: 65.02%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level.

The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards, June 2010." The segment values are 40 mg/l for hardness (as calcium carbonate), 86 mg/l chlorides, 7.6 standard units for pH, and 10 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation.

Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment C of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 18 MGD and the harmonic mean flow of 28.45 cfs for Whiteoak Bayou Above Tidal. The following critical effluent percentage is being used:

Human Health Effluent %: 49.47%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment C of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1017, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee performed eighteen chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address

toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

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

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

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested

case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

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

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

For additional information about this application, contact Miguel A. Mercado at (512) 239-4547.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WO0010495076 issued on June 14, 2021.

B. APPLICATION

Application received on December 1, 2023, and additional information received on December 15, 2023, February 7, 2024, May 10, 2024.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP),

Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E (TMDL Project No. 22).

Attachment A: pH Screening

Calculation of pH of a mixture of two flows. Based on the procedure in EPA's DESCON program (EPA, 1988. Technical Guidance on Supplementary Stream Design Conditions for Steady State Modeling. USEPA Office of Water, Washington D.C.) CowTown Pipeline, pre-app

City of Houston; 10495-076 Segment 1017

Source Data:

Eff. Flow (cfs):

fraction at edge of chronic mixing zone:

INPUT		
1. DILUTION FACTOR AT MIXING ZONE BOUNDARY	1.530	1.530
RECEIVING WATER CHARACTERISTICS		
2. Temperature (deg C):	31.00	31.00
3. pH:	7.70	7.70
4. Alkalinity (mg CaCO3/L):	81.00	81.00
EFFLUENT CHARACTERISTICS		
5. Temperature (deg C):	20.00	30.00
6. pH:	6.00	9.00
7. Alkalinity (mg CaCO3/L):	20.00 *	80.00
ОИТРИТ		
1. IONIZATION CONSTANTS		
Upstream/Background pKa:	6.32	6.32
Effluent pKa:	6.38	6.32
·		
2. IONIZATION FRACTIONS		
Upstream/Background Ionization Fraction: Effluent Ionization Fraction:	0.96 0.29	0.96 1.00
Efficient fonization Fraction:	0.29	1.00
3. TOTAL INORGANIC CARBON		
Upstream/Background Total Inorganic Carbon (mg CaCO3/L):	84.37	84.37
Effluent Total Inorganic Carbon (mg CaCO3/L):	68.20	80.17
4. CONDITIONS AT MIXING ZONE BOUNDARY		
Temperature (deg C):	23.81	30.35
Alkalinity (mg CaCO3/L):	41.13	80.35
Total Inorganic Carbon (mg CaCO3/L):	73.80	81.63
pKa:	6.36	6.32
pH at Mixing Zone Boundary:	6.46	8.12
pH at Mixing Zone Boundary:	Rounds to 6.5	8.

Next: take reciprocal of % @ edge of mixing zone to get dilution factor

IPs Table D-08
IPs Table D-08
Seg. 1017

27.85 7Q2 flow: 14.98

Critical conditions memo feb 13, 2024

65.02

Segment criteria 6.5-9.0

^{*} Assume minimal total alkalinity at low effluent pH based on carbonate equilibrium chemistry of natural and treated waters

Attachment B: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:

Permit Number, Outfall:

Segment Number:

City of Houston

10495076

1017

Enter values needed for screening:	Data Source (edit if different)		
QE - Average effluent flow	18	MGD	
QS - Perennial stream harmonic mean flow	28.45	cfs	Critical conditions memo
QE - Average effluent flow	27.8501	cfs	Calculated
CA - TDS - ambient segment concentration	463	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	86	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	33	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	600	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	110	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	65	mg/L	2022 TSWQS, Appendix A
		•	
CE - TDS - average effluent concentration	589	mg/L	Permit application
CE - chloride - average effluent concentration	134	mg/L	Permit application
CE - sulfate - average effluent concentration	100	mg/L	Permit application

Screening Equation

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

No further screening for TDS needed if:	525.33	≤	600
No further screening for chloride needed if:	109.74	≤	110
No further screening for sulfate needed if:	66.14	≤	65

Permit Limit Calculations

TDS

Calculate the WLA	WLA = [CC(QE+QS) - (QS)(CA)]/QE	739.95
Calculate the LTA	LTA = WLA * 0.93	688.15
Calculate the daily average	Daily Avg. = LTA * 1.47	1011.59
Calculate the daily maximum	Daily Max. = LTA * 3.11	2140.16
Calculate 70% of the daily average	70% of Daily Avg. =	708.11

Calculate 85% of the daily average	85% of Da	859.85			
No permit limitations needed if:	589	≤	708.11		
Reporting needed if:	589	>	708.11	but ≤	859.85
Permit limits may be needed if:	589	>	859.85		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC	(QE+QS) -	134.52		
Calculate the LTA	LTA = WLA * 0.93				
Calculate the daily average	Daily Avg. = LTA * 1.47				
Calculate the daily maximum	Daily Max	. = LTA * 3	389.06		
Calculate 70% of the daily average	70% of Da	ily Avg. =	128.73		
Calculate 85% of the daily average	85% of Daily Avg. =			156.31	
No permit limitations needed if:	134	≤	128.73		
Reporting needed if:	134	>	128.73	but ≤	156.31
Permit limits may be needed if:	134	>	156.31		

Reporting needed for chloride

Sulfate

Janace					
Calculate the WLA	WLA= [CC	(QE+QS) -	97.69		
Calculate the LTA	LTA = WLA	A * 0.93		90.85	
Calculate the daily average	Daily Avg.	= LTA * 1.	47	133.55	
Calculate the daily maximum	Daily Max	. = LTA * 3	.11	282.55	
Calculate 70% of the daily average	70% of Da	ily Avg. =	93.49		
Calculate 85% of the daily average	85% of Da	ily Avg. =	113.52		
No permit limitations needed if:	100	≤	93.49		
Reporting needed if:	100	>	93.49	but ≤	113.52
Permit limits may be needed if:	100	>	113.52		

Reporting needed for sulfate

Attachment C: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

 Permittee Name:
 City of Houston

 TPDES Permit No.:
 WQ0010495076

 Outfall No.:
 001

 Prepared by:
 Miguel A. Mercado

 Date:
 May 6, 2024

DISCHARGE INFORMATION

DISCHARGE INFORMATION		
Receiving Waterbody:	Whiteoak	Bayou Above Tidal
Segment No.:	1017	
TSS (mg/L):	9	
pH (Standard Units):	7.7	
Hardness (mg/L as CaCO₃):	65	
Chloride (mg/L):	85	
Effluent Flow for Aquatic Life (MGD):	18	
Critical Low Flow [7Q2] (cfs):	14.98	
% Effluent for Chronic Aquatic Life (Mixing		
Zone):	65.02	
% Effluent for Acute Aquatic Life (ZID):	88.15	
Effluent Flow for Human Health (MGD):	18	
Harmonic Mean Flow (cfs):	28.45	
% Effluent for Human Health:	49.47	
Human Health Criterion (select: PWS, FISH,		
or INC)	FISH	

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

Stream/River Metal	Intercep t (b)	Slope (m)	Partitio n Coefficie nt (Kp)	Dissolve d Fraction (Cd/Ct)	Source	Water Effect Ratio (WER)	Source
					Assume		Assume
Aluminum	N/A	N/A	N/A	1.00	d	1.00	d
			96250.4				Assume
Arsenic	5.68	-0.73	9	0.536		1.00	d
			332434.				Assume
Cadmium	6.60	-1.13	40	0.251		1.00	d
			429096.				Assume
Chromium (total)	6.52	-0.93	00	0.206		1.00	d
			429096.				Assume
Chromium (trivalent)	6.52	-0.93	00	0.206		1.00	d
					Assume		Assume
Chromium (hexavalent)	N/A	N/A	N/A	1.00	d	1.00	d
			205996.				Assume
Copper	6.02	-0.74	83	0.350		1.00	d
			485966.				Assume
Lead	6.45	-0.80	12	0.186		1.00	d
					Assume		Assume
Mercury	N/A	N/A	N/A	1.00	d	1.00	d

			139985.				Assume
Nickel	5.69	-0.57	09	0.443		1.00	d
					Assume		Assume
Selenium	N/A	N/A	N/A	1.00	d	1.00	d
			249534.				Assume
Silver	6.38	-1.03	28	0.308		1.00	d
			270414.				Assume
Zinc	6.10	-0.70	67	0.291		1.00	d

AQUATIC LIFE CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

	FW	FW Chronic						
	Acute	Criterio					Daily	Daily
_	Criterio	n	WLAa	WLAc	LTAa	LTAC	Avg.	Max.
Parameter	n (μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
Aldrin	3.0	N/A	3.40	N/A	1.95	N/A	2.86	6.06
Aluminum	991	N/A	1124	N/A	644	N/A	946	2003
Arsenic	340	150	720	431	412	331	487	1030
Cadmium	5.6	0.182	25.6	1.12	14.6	0.862	1.26	2.68
Carbaryl	2.0	N/A	2.27	N/A	1.30	N/A	1.91	4.04
Chlordane	2.4	0.004	2.72	0.00615	1.56	0.00474	0.00696	0.0147
Chlorpyrifos	0.083	0.041	0.0942	0.0631	0.0540	0.0486	0.0713	0.150
Chromium (trivalent)	400	52	2208	389	1265	300	440	932
Chromium (hexavalent)	15.7	10.6	17.8	16.3	10.2	12.6	15.0	31.7
Copper	9.5	6.6	30.6	28.8	17.6	22.1	25.8	54.6
Cyanide (free)	45.8	10.7	52.0	16.5	29.8	12.7	18.6	39.4
								0.0036
4,4'-DDT	1.1	0.001	1.25	0.00154	0.715	0.00118	0.00174	8
Demeton	N/A	0.1	N/A	0.154	N/A	0.118	0.174	0.368
Diazinon	0.17	0.17	0.193	0.261	0.111	0.201	0.162	0.343
Dicofol [Kelthane]	59.3	19.8	67.3	30.5	38.5	23.4	34.4	72.9
Dialdria	0.24	0.000	0.272	0.00200	0.156	0.00227	0.00340	0.0073
Dieldrin	0.24	0.002	0.272	0.00308	0.156	0.00237	0.00348	6
Diuron	210	70	238	108	137	82.9	121	257
Endosulfan I (alpha)	0.22	0.056	0.250	0.0861	0.143	0.0663	0.0974	0.206
Endosulfan II (beta)	0.22	0.056	0.250	0.0861	0.143	0.0663	0.0974	0.206
Endosulfan sulfate	0.22	0.056	0.250	0.0861	0.143	0.0663	0.0974	0.206
Endrin	0.086	0.002	0.0976	0.00308	0.0559	0.00237	0.00348	0.0073 6
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0154	N/A	0.0118	0.0174	0.0368
Heptachlor	0.52	0.004	0.590	0.00615	0.338	0.00474	0.00696	0.0147
Hexachlorocyclohexane (gamma) [Lindane]	1.126	0.004	1.28	0.123	0.732	0.00474	0.139	0.0147
Lead	40	1.57	246	13.0	141	9.99	14.6	31.0
Malathion	N/A	0.01	N/A	0.0154		0.0118	0.0174	0.0368
	2.4	1.3	2.72	2.00	N/A 1.56			4.78
Methographer		0.03			1.56	1.54	2.26	
Methoxychlor	N/A	0.03	N/A	0.0461	N/A	0.0355	0.0522	0.110
Mirex	N/A	0.001	N/A	0.00154	N/A	0.00118	0.00174	0.0036
Nickel	325	36.1	834	126	478	96.7	142	300
Nonylphenol	28	6.6	31.8	10.2	18.2	7.82	11.4	24.3
Parathion (ethyl)	0.065	0.013	0.0737	0.0200	0.0423	0.0154	0.0226	0.0478
Pentachlorophenol	17.6	13.5	20.0	20.8	11.5	16.0	16.8	35.6
Phenanthrene	30	30	34.0	46.1	19.5	35.5	28.6	60.6
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.27	0.0215	1.30	0.0166	0.0243	0.0515
i orychiorinated Diprieriyi3 [FCD3]	2.0	0.014	2.21	0.0213	1.50	0.0100	0.0243	0.0010
Selenium	20	5	22.7	7.69	13.0	5.92	8.70	18.4

				0.00030		0.00023	0.00034	0.0007
Toxaphene	0.78	0.0002	0.885	8	0.507	7	8	36
Tributyltin [TBT]	0.13	0.024	0.147	0.0369	0.0845	0.0284	0.0417	0.0883
2,4,5 Trichlorophenol	136	64	154	98.4	88.4	75.8	111	235
Zinc	81	82	317	433	182	333	266	564

HUMAN HEALTH

		Fish					
	Water	Only	Incident				
	and Fish	Criterio	al Fish			Daily	Daily
Parameter	Criterio n (μg/L)	n (μg/L)	Criterion	WLAh (μg/L)	LTAh (μg/L)	Avg. (μg/L)	Max. (μg/L)
Acrylonitrile	1.0	115	<u>(μg/L)</u> 1150	232	216	317	(<i>µy/L)</i>
Actylorittile	1.146E-	1.147E-	1.147E-	0.00002	0.00002	0.00003	0.0000
Aldrin	05	05	04	32	16	16	7
Anthracene	1109	1317	13170	2662	2476	3639	770
Antimony	6	1071	10710	2165	2014	2959	626
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/
Benzene	5	581	5810	1175	1092	1605	339
Benzidine	0.0015	0.107	1.07	0.216	0.201	0.295	0.62
Benzo(a)anthracene	0.024	0.025	0.25	0.0505	0.0470	0.0690	0.14
Benzo(a)pyrene	0.0025	0.0025	0.025	0.00505	0.00470	0.00690	0.014
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.555	0.516	0.758	1.6
Bis(2-chloroethyl)ether	0.60	42.83	428.3	86.6	80.5	118	25
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)							
phthalate]	6	7.55	75.5	15.3	14.2	20.8	44
Bromodichloromethane							
[Dichlorobromomethane]	10.2	275	2750	556	517	760	160
Bromoform [Tribromomethane]	66.9	1060	10600	2143	1993	2929	619
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/
Carbon Tetrachloride	4.5	46	460	93.0	86.5	127	26
Chlordane	0.0025	0.0025	0.025	0.00505	0.00470	0.00690	0.014
Chlorobenzene	100	2737	27370	5533	5146	7564	1600
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	370	344	505	106
Chloroform [Trichloromethane]	7.5	7697	76970	15560	14471	21271	4500
Chromium (hexavalent)	62	502	5020	1015	944	1387	293
Chrysene	2.45	2.52	25.2	5.09	4.74	6.96	14.
Cresols [Methylphenols]	1041	9301	93010	18802	17486	25704	5438
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/
4,4'-DDD	0.002	0.002	0.02	0.00404	0.00376	0.00552	0.011
4,4 -000	0.002	0.002	0.02	0.00026	0.00024	0.00035	0.0007
4,4'-DDE	0.00013	0.00013	0.0013	3	4	9	
				0.00080	0.00075		
4,4'-DDT	0.0004	0.0004	0.004	9	2	0.00110	0.0023
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/
Danitol [Fenpropathrin]	262	473	4730	956	889	1307	276
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	8.57	7.97	11.7	24
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	1203	1119	1644	347
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	6669	6202	9117	1928
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/
3,3'-Dichlorobenzidine	0.79	2.24	22.4	4.53	4.21	6.19	13
1,2-Dichloroethane	5	364	3640	736	684	1005	212
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	111415	103616	152316	32224
Dichloromethane [Methylene Chloride]	5	13333	133330	26953	25067	36847	7795

1,2-Dichloropropane	5	259	2590	524	487	715	1514
1,3-Dichloropropene [1,3-		233	2330	321	107	713	1311
Dichloropropylene]	2.8	119	1190	241	224	328	695
Dicofol [Kelthane]	0.30	0.30	3	0.606	0.564	0.829	1.75
				0.00004	0.00003	0.00005	0.00011
Dieldrin	2.0E-05	2.0E-05	2.0E-04	04	76	52	6
2,4-Dimethylphenol	444	8436	84360	17054	15860	23314	49324
Di-n-Butyl Phthalate	88.9	92.4	924	187	174	255	540
D: : /5 [TODD 5 : .]	7.80E-	7.97E-	7.075.07	1.61E-	1.50E-	2.20E-	4.65E-
Dioxins/Furans [TCDD Equivalents]	08	08	7.97E-07	07	07	07	07
Endrin	0.02	0.02	0.2	0.0404	0.0376	0.0552	0.116
Epichlorohydrin	53.5	2013	20130	4069	3785	5563	11769
Ethylbenzene	700	1867	18670	3774	3510	5159	10916
Ethylene Glycol	46744	1.68E+0 7	1.68E+0 8	339619 50	315846 14	464293 82	982281 49
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Tidofide	4000	IN/A	IN/A	0.00020	0.00018	0.00027	0.00058
Heptachlor	8.0E-05	0.0001	0.001	2	8	6	4
<u> </u>				0.00058	0.00054	0.00080	
Heptachlor Epoxide	0.00029	0.00029	0.0029	6	5	1	0.00169
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00137	0.00128	0.00187	0.00397
Hexachlorobutadiene	0.21	0.22	2.2	0.445	0.414	0.608	1.28
Hexachlorocyclohexane (alpha)	0.0078	0.0084	0.084	0.0170	0.0158	0.0232	0.0491
Hexachlorocyclohexane (beta)	0.15	0.26	2.6	0.526	0.489	0.718	1.52
Hexachlorocyclohexane (gamma) [Lindane]	0.2	0.341	3.41	0.689	0.641	0.942	1.99
Hexachlorocyclopentadiene	10.7	11.6	116	23.4	21.8	32.0	67.8
Hexachloroethane	1.84	2.33	23.3	4.71	4.38	6.43	13.6
Hexachlorophene	2.05	2.90	29	5.86	5.45	8.01	16.9
4,4'-Isopropylidenediphenol	1092	15982	159820	32308	30047	44168	93445
Lead	1.15	3.83	38.3	41.6	38.7	56.8	120
Mercury	0.0122	0.0122	0.122	0.0247	0.0229	0.0337	0.0713
Methoxychlor	2.92	3.0	30	6.06	5.64	8.29	17.5
,		9.92E+0	9.92E+0	200537	186499	274154	580013
Methyl Ethyl Ketone	13865	5	6	2	6	4	8
Methyl tert-butyl ether [MTBE]	15	10482	104820	21190	19707	28968	61287
Nickel	332	1140	11400	5208	4843	7119	15063
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	3786	3521	5176	10951
N-Nitrosodiethylamine	0.0037	2.1	21	4.25	3.95	5.80	12.2
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	8.49	7.90	11.6	24.5
Pentachlorobenzene	0.348	0.355	3.55	0.718	0.667	0.981	2.07
Pentachlorophenol	0.22	0.29	2.9	0.586	0.545	0.801	1.69
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00129	0.00120	0.00176	0.00374
Pyridine	23	947	9470	1914	1780	2617	5537
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.485	0.451	0.663	1.40
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	53.3	49.5	72.8	154
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	566	526	773	1637
Thallium	0.12	0.23	2.3	0.465	0.432	0.635	1.34
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0222	0.0207	0.0304	0.0643
2,4,5-TP [Silvex]	50	369	3690	746	694	1019	2157
2, 1,5 11 [511904]	- 50	303	3030	158560	147461	216768	458605
1,1,1-Trichloroethane	200	784354	7843540	7	4	2	0
1,1,2-Trichloroethane	5	166	1660	336	312	458	970
Trichloroethylene [Trichloroethene]	5	71.9	719	145	135	198	420
2,4,5-Trichlorophenol	1039	1867	18670	3774	3510	5159	10916

TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	33.4	31.0	45.6	96.4

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

A museline life	70% of Daily	85% of Daily
Aquatic Life	Avg.	Avg.
Aldrin	(μ g/L) 2.00	(μ g/L) 2.43
Aluminum	662	804
Arsenic	341	414
Cadmium	0.886	1.07
Carbaryl	1.33	1.62
Chlordane	0.00487	0.00591
Chlorpyrifos	0.0499	0.0606
Chromium (trivalent)	308	374
	10.5	12.7
Chromium (hexavalent)	18.0	21.9
Copper		
Cyanide (free)	13.0	15.8
4,4'-DDT	0.00121	0.00147
Demeton	0.121	0.147
Diazinon Diazinol	0.113	0.138
Dicofol [Kelthane]	24.1	29.2
Dieldrin	0.00243	0.00295
Diuron	85.2	103
Endosulfan I (alpha)	0.0682	0.0828
Endosulfan II (beta)	0.0682	0.0828
Endosulfan sulfate	0.0682	0.0828
Endrin	0.00243	0.00295
Guthion [Azinphos Methyl]	0.0121	0.0147
Heptachlor	0.00487	0.00591
Hexachlorocyclohexane (gamma) [Lindane]	0.0974	0.118
Lead	10.2	12.4
Malathion	0.0121	0.0147
Mercury	1.58	1.92
Methoxychlor	0.0365	0.0443
Mirex	0.00121	0.00147
Nickel	99.4	120
Nonylphenol	8.04	9.76
Parathion (ethyl)	0.0158	0.0192
Pentachlorophenol	11.7	14.3
Phenanthrene	20.0	24.3
Polychlorinated Biphenyls [PCBs]	0.0170	0.0207
Selenium	6.09	7.39
Silver	12.3	15.0
Tavanhana	0.00024	0.00029
Toxaphene	3	5
Tributyltin [TBT]	0.0292	0.0355
2,4,5 Trichlorophenol	77.9	94.6
Zinc	186	226
	70% of	85% of
Human Health	Daily Avg.	Daily Avg.
naman neam	Avy.	avy.

City of Houston TPDES Permit No. WQ0010495076 Fact Sheet and Executive Director's Preliminary Decision

Parameter	(μg/L)	(μg/L)
Acrylonitrile	222	270
	0.00002	0.00002
Aldrin	21	69
Anthracene	2547	3093
Antimony	2071	2515
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1123	1364
Benzidine	0.206	0.251
Benzo(a)anthracene	0.0483	0.0587
Benzo(a)pyrene	0.00483	0.00587
Bis(chloromethyl)ether	0.531	0.644
Bis(2-chloroethyl)ether	82.8	100
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl)	116	177
phthalate] Bromodichloromethane	14.6	17.7
[Dichlorobromomethane]	532	646
Bromoform [Tribromomethane]	2050	2490
Cadmium	N/A	N/A
Carbon Tetrachloride	88.9	108
Chlordane	0.00483	0.00587
Chlorobenzene	5294	6429
Chlorodibromomethane		
[Dibromochloromethane]	354	429
Chloroform [Trichloromethane]	14890	18081
Chromium (hexavalent)	971	1179
Chrysene	4.87	5.91
Cresols [Methylphenols]	17993	21849
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00386	0.00469
	0.00025	0.00030
4,4'-DDE	1	5
4,4'-DDT	0.00077 3	0.00093 9
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	915	1111
1,2-Dibromoethane [Ethylene Dibromide]	8.20	9.96
m-Dichlorobenzene [1,3-Dichlorobenzene]	1151	1397
o-Dichlorobenzene [1,2-Dichlorobenzene]	6382	7749
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	4.33	5.26
1,2-Dichloroethane	704	855
1,1-Dichloroethylene [1,1-Dichloroethene]		
Dichloromethane [Methylene Chloride]	106621 25793	129468
		31320
1,2-Dichloropropane 1,3-Dichloropropene [1,3-	501	608
Dichloropropylene]	230	279
Dicofol [Kelthane]	0.580	0.704
	0.00003	0.00004
Dieldrin	86	69
2,4-Dimethylphenol	16319	19817
Di-n-Butyl Phthalate	178	217
	1.54E-	1.87E-
Dioxins/Furans [TCDD Equivalents]	07	07
Endrin	0.0386	0.0469
Epichlorohydrin	3894	4728

City of Houston TPDES Permit No. WQ0010495076 Fact Sheet and Executive Director's Preliminary Decision

Ethylbenzene	3611	4385
	325005	394649
Ethylene Glycol	67	75
Fluoride	N/A	N/A
Harata alala a	0.00019	0.00023
Heptachlor	0.00056	0.00068
Heptachlor Epoxide	0.00030	0.00008
Hexachlorobenzene	0.00131	0.00159
Hexachlorobutadiene	0.425	0.516
Hexachlorocyclohexane (alpha)	0.0162	0.0197
	0.502	0.610
Hexachlorocyclohexane (beta)		
Hexachlorocyclohexane (gamma) [Lindane]	0.659	0.801
Hexachlorocyclopentadiene	22.4	27.2
Hexachloroethane	4.50	5.47
Hexachlorophene	5.61	6.81
4,4'-Isopropylidenediphenol	30918	37543
Lead	39.8	48.3
Mercury	0.0236	0.0286
Methoxychlor	5.80	7.04
	191908	233031
Methyl Ethyl Ketone	1	2
Methyl tert-butyl ether [MTBE]	20278	24623
Nickel	4983	6051
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3623	4399
N-Nitrosodiethylamine	4.06	4.93
N-Nitroso-di- <i>n</i> -Butylamine	8.12	9.86
Pentachlorobenzene	0.686	0.833
Pentachlorophenol	0.561	0.681
Polychlorinated Biphenyls [PCBs]	0.00123	0.00150
Pyridine	1832	2224
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.464	0.563
1,1,2,2-Tetrachloroethane	50.9	61.8
Tetrachloroethylene [Tetrachloroethylene]	541	657
Thallium	0.444	0.540
Toluene	N/A	N/A
Toxaphene	0.0212	0.0258
2,4,5-TP [Silvex]	713 151737	866 184253
1,1,1-Trichloroethane	7	0
1,1,2-Trichloroethane	321	389
Trichloroethylene [Trichloroethene]	139	168
2,4,5-Trichlorophenol	3611	4385
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	31.9	38.7



Application to Renew TPDES Permit Number WQ0010495076 Northwest Wastewater Treatment Facility

RECEIVED

DEC U 1 2023

Water Quality Applications Team

Prepared Fall 2023

City of Houston | Houston Public Works | Houston Water

Application to Renew TPDES Permit Number WQ0010495076 Northwest Wastewater Treatment Facility

Application for a Domestic Wastewater Permit

- 1) Administrative Report 1.0
- 2) Supplemental Permit Information Form (SPIF)
- 3) Domestic Technical Report 1.0
- 4) Domestic Technical Report Worksheet 2.0
- 5) Domestic Worksheet 4.0
- 6) Domestic Worksheet 5.0
- 7) Domestic Worksheet 6.0

Attachments

	<u>Description</u>	<u>Reference</u>
1	Copy of Application Fee Check	Administrative Report 1.0, Section 1
2	Core Data Form	Administrative Report 1.0, Section 3.C.
3	USGS Map	Administrative Report 1.0, Section 13
4	Treatment Units	Domestic Technical Report 1.0, Section 2.B.
5	Process Flow Diagram	Domestic Technical Report 1.0, Section 2.C.
6	Site Drawing	Domestic Technical Report 1.0, Section 3
7	Laboratory Test Reports and COCs	Domestic Technical Report 1.0, Section 7, Table 1.0(2) Domestic Worksheet 4.0, Section 1 Domestic Worksheet 4.0, Section 2
8	Facility Operators	Domestic Technical Report 1.0, Section 8
9	WET Test Results	Domestic Worksheet 5.0, Section 1. Domestic Worksheet 5.0, Section 3.
10	Effluent Parameters Above the MAL	Domestic Worksheet 6.0, Section 2.C.

City of Houston | Houston Public Works | Houston Water

Attachment 2

Core Data Form

Administrative Report 1.0, Section 3.C.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Houston

PERMIT NUMBER: WQ0010495076

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

	Y	\mathbf{N}		Y	N
Administrative Report 1.0	\boxtimes		Original USGS Map (8.5" x 11")	\boxtimes	
Administrative Report 1.1		\boxtimes	Affected Landowners Map		\boxtimes
SPIF	\boxtimes		Landowner Disk or Labels		\boxtimes
Core Data Form	\boxtimes		Buffer Zone Map		
Public Involvement Plan Form		\boxtimes	Flow Diagram	\boxtimes	
Technical Report 1.0	\boxtimes		Site Drawing	\boxtimes	
Technical Report 1.1		\boxtimes	Original Photographs		\boxtimes
Worksheet 2.0	\boxtimes		Design Calculations		\boxtimes
Worksheet 2.1		\boxtimes	Solids Management Plan		\boxtimes
Worksheet 3.0		\boxtimes	Water Balance		\boxtimes
Worksheet 3.1	200	\boxtimes	RECEIVE	D	
Worksheet 3.2		\boxtimes	DEC 0 1 202		
Worksheet 3.3		\boxtimes	Water Quality Application		m
Worksheet 4.0	\boxtimes		Water Quality Application	110 100	
Worksheet 5.0	\boxtimes		RECE	BA III	
Worksheet 6.0	\boxtimes			A.	Am
Worksheet 7.0			Water Quality App	202 dicatio	23 Its Team

For TCEQ Use Only	<i>I</i>			
Segment Number _ Expiration Date Permit Number	1617 06/14/2024 0010495076	County _ Region _	Marris 12-Houston	



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 □	\$315.00 □
≥0.05 but <0.10 MGD	\$550.00 □	\$515.00 □
≥0.10 but <0.25 MGD	\$850.00 □	\$815.00 □
≥0.25 but <0.50 MGD	\$1,250.00 □	\$1 , 215.00 □
≥0.50 but <1.0 MGD	\$1,650.00 □	\$1,615.00 □
≥1.0 MGD	\$2 , 050.00 □	\$2,015.00 ⊠
Minor Amendment (for	any flow) \$150.00 □	
Payment Information:	Attachment 1	
Mailed Che	eck/Money Order Number: 21060763	

Mailed Check/Money Order Number: 21060763
Check/Money Order Amount: \$2,015.00
Name Printed on Check: City of Houston

EPAY Voucher Number:

Copy of Payment Voucher enclosed?

Section 2. Type of Application (Instructions Page 29)

	New TPDES		New TLAP
	Major Amendment with Renewal		Minor Amendment with Renewal
	Major Amendment <u>without</u> Renewal		Minor Amendment <u>without</u> Renewal
\boxtimes	Renewal without changes		Minor Modification of permit
For	amendments or modifications, describe the p	ropo	sed changes: Click here to entertext.
For	existing permits:		

Yes □

Permit Number: WQ00<u>10495076</u> EPA I.D. (TPDES only): TX<u>0063011</u>

Expiration Date: June 14, 2024

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 29)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

City of Houston

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/

CN: 600128995

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

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

First and Last Name: <u>Carol Haddock</u> Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> Title: Director, Houston Public Works

N/AB. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN: Click here to enter text.

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

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

First and Last Name: Click here to enter text

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

Title: Click here to entertext.

Provide a brief description of the need for a co-permittee: Which here to enter text

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0.

Attachment: 2

Section 4. Application Contact Information (Instructions Page 30)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A.	Prefix (Mr., Ms., Miss): Mr.
	First and Last Name: Walid Samarneh
	Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title: Managing Engineer, Houston Public Works
	Organization Name: City of Houston, Houston Public Works
	Mailing Address: 10500 Bellaire Boulevard
	City, State, Zip Code: <u>Houston, Texas</u> 77072
	Phone No.: <u>832-395-5771</u> Ext.: Fax No.: <u>832-395-5838</u>
	E-mail Address: Walid.Samarneh@houstontx.gov
	Check one or both: \square Administrative Contact \boxtimes Technical Contact
B.	Prefix (Mr., Ms., Miss): Ms.
	First and Last Name: Carol La Breche
	Credential (P.E, P.G., Ph.D., etc.): P.E.
	Title: Supervising Engineer, Houston Public Works
	Organization Name: City of Houston, Houston Public Works
	Mailing Address: 10500 Bellaire Boulevard
	City, State, Zip Code: <u>Houston, Texas 77072</u>
	Phone No.: 832-395-5813 Ext.: Child have to enter test. Fax No.: 832-395-5838
	E-mail Address: Carol.LaBreche@houstontx.gov
	Check one or both: 🗵 Administrative Contact 🗆 Technical Contact
	Tellinett contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: <u>Carol Haddock</u> Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> Title: Director, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: <u>10500 Bellaire Boulevard</u>
City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-2500 Ext.: Click here to enter text Fax No.: 832-395-2480

E-mail Address: PublicWorks@houstontx.gov

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

First and Last Name: Sylvester Turner

Credential (P.E, P.G., Ph.D., etc.): Thek here to enter fext.

Title: Mayor

Organization Name: City of Houston

Mailing Address: P.O. Box 1562

City, State, Zip Code: Houston, Texas 77251

Phone No.: 832-395-1011 Ext.: Click have to onten test Fax No.: 832-393-1067

E-mail Address: Sylvester.Turner@houstontx.gov

Section 6. Billing Information (Instructions Page 30)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to 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 (using form TCEQ-20029).

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

First and Last Name: <u>Walid Samarneh</u> Credential (P.E., P.G., Ph.D., etc.): P.E.

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: <u>10500 Bellaire Boulevard</u>
City, State, Zip Code: Houston, Texas 77072

Phone No.: 832-395-5771 Ext.: Click here to enter text. Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

Section 7. DMR/MER Contact Information (Instructions Page 31)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

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

First and Last Name: <u>Walid Samarneh</u> Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>

Title: Managing Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: <u>10500 Bellaire Boulevard</u>
City, State, Zip Code: <u>Houston</u>, Texas 77072

Phone No.: 832-395-5771 Ext.: Fax No.: 832-395-5838

E-mail Address: Walid.Samarneh@houstontx.gov

DMR data is required to be submitted electronically. Create an account at:

https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: <u>Carol La Breche</u> Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u>

Title: Supervising Engineer, Houston Public Works

Organization Name: City of Houston, Houston Public Works

Mailing Address: <u>10500 Bellaire Boulevard</u>
City, State, Zip Code: <u>Houston</u>, <u>Texas</u> 77072

Phone No.: 832-395-5813 Ext.: Which have the artists to at Fax No.: 832-395-5838

E-mail Address: Carol.LaBreche@houstontx.gov

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

⋈ E-mail Address

□ Fax

□ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Carol La Breche

Credential (P.E, P.G., Ph.D., etc.): P.E. Title: Supervising Engineer, Houston Public Works Organization Name: City of Houston, Houston Public Works Phone No.: 832-395-5813 Ext.: Click here to enter fext. E-mail: Carol.LaBreche@houstontx.gov D. Public Viewing Information If the facility or outfall is located in more than one county, a public viewing place for each county must be provided. Public building name: City of Houston, Houston Public Works, Wastewater Operations Building Location within the building: Library Physical Address of Building: 10500 Bellaire Boulevard City: Houston County: Harris Contact Name: Carol La Breche Phone No.: 832-395-5813 Ext.: E. Bilingual Notice Requirements: This information is required for new, major amendment, minor amendment or minor modification, and renewal applications. This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package. Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required. 1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility? X Yes No If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below. 2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school? No Yes

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
	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.	Public Involvement Plan Form
	Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit and include as an attachment.
	Attachment: N/A
Se	ection 9. Regulated Entity and Permitted Site Information (Instructions
	Page 33)
A.	If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. $RN101610665$
	Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.
B.	Name of project or site (the name known by the community where located):
	Northwest Wastewater Treatment Facility
C.	Owner of treatment facility: <u>City of Houston</u>
	Ownership of Facility: $oxtimes$ Public $oxtimes$ Private $oxtimes$ Both $oxtimes$ Federal
D.	Owner of land where treatment facility is or will be:
	Prefix (Mr., Ms., Miss): Click bere to entertest.
	First and Last Name: <u>City of Houston</u>
	Mailing Address: 10500 Bellaire Boulevard
	City, State, Zip Code: <u>Houston, Texas 77072</u>
	Phone No.: 832-395-5771 E-mail Address: Walid.Samarneh@houstontx.gov
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment: Click here to enterciext
E.	Owner of effluent disposal site:
	Prefix (Mr., Ms., Miss): Click here to enter text.
	First and Last Name: Click here to enter text.

N/AE.

	Mailing Address: Click here to enter feet.
	City, State, Zip Code: Click here to enter text.
	Phone No.: Click here to enter text. E-mail Address: Click here to enter text.
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment: Click here to entry text.
N/A F.	Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):
	Prefix (Mr., Ms., Miss): Click here to enter text.
	First and Last Name: Click here to enter test
	Mailing Address: Chek here to entor less.
	City, State, Zip Code: Click here to enter text.
	Phone No.: Click here to enter text. E-mail Address: Click here to enter text.
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment: Click here to enter text,
Co	ation 10 TDDEC Discharge Line (L. C.
- A	CHAN III I PIJES I JICCHARGA INTARMATIAN (INCIPILITIANG PAGA 3/1)
	ction 10. TPDES Discharge Information (Instructions Page 34) Is the wastewater treatment facility location in the existing permit accurate?
	Is the wastewater treatment facility location in the existing permit accurate?
	Is the wastewater treatment facility location in the existing permit accurate? $\ \ \ \ \ \ \ \ \ \ \ \ \ $
	Is the wastewater treatment facility location in the existing permit accurate?
	Is the wastewater treatment facility location in the existing permit accurate? ☑ Yes □ No If no, or a new permit application, please give an accurate description:
	Is the wastewater treatment facility location in the existing permit accurate? ☑ Yes □ No If no, or a new permit application, please give an accurate description:
A.	Is the wastewater treatment facility location in the existing permit accurate? ☑ Yes □ No If no, or a new permit application, please give an accurate description:
A.	Is the wastewater treatment facility location in the existing permit accurate? ☑ Yes ☐ No If no, or a new permit application, please give an accurate description:
A.	Is the wastewater treatment facility location in the existing permit accurate? ☐ Yes ☐ No If no, or a new permit application, please give an accurate description: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
A.	Is the wastewater treatment facility location in the existing permit accurate? Yes □ No If no, or a new permit application, please give an accurate description: Are the point(s) of discharge and the discharge route(s) in the existing permit correct? Yes □ No If no, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in
A.	Is the wastewater treatment facility location in the existing permit accurate? Yes
A.	Is the wastewater treatment facility location in the existing permit accurate? Yes
A.	Is the wastewater treatment facility location in the existing permit accurate? Yes
A.	Is the wastewater treatment facility location in the existing permit accurate? Yes □ No If no, or a new permit application, please give an accurate description: Are the point(s) of discharge and the discharge route(s) in the existing permit correct? Yes □ No If no, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307: Click here to entertext

	C.	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:
		oxdot Authorization granted $oxdot$ Authorization pending
		For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
		Attachment: Thek here to enter text.
	D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.
		Harris, Chambers, Galveston, and Brazoria Counties
DT / A	C -	ei 11 TIAD Di 11 II AD Di 12 I
N/A	Se	ction 11. TLAP Disposal Information (Instructions Page 36)
	A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
		□ Yes □ No
		If no, or a new or amendment permit application , provide an accurate description of the disposal site location:
		Click here to enter text,
2		
	В.	City nearest the disposal site: Click here to eater rest
		City nearest the disposal site: Clark here to eater text. County in which the disposal site is located: Clark here to eater text.
	C.	
	C. D.	County in which the disposal site is located: Click here to enter text.
	C. D.	County in which the disposal site is located: Longitude: Longitude:
	C. D.	County in which the disposal site is located: Longitude: Longitude: For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:
9	C. D. E.	County in which the disposal site is located: Longitude: Longitude: For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:
9	C. D. E.	County in which the disposal site is located: Longitude: Longitude: For TLAPs, describe the routing of effluent from the treatment facility to the disposal site: For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall
9	C. D. E.	County in which the disposal site is located: Longitude: For TLAPs, describe the routing of effluent from the treatment facility to the disposal site: For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

S	ection 12. Miscellaneous Information (Instructions Page 37)
A.	. Is the facility located on or does the treated effluent cross American Indian Land? ☐ Yes ☑ No
B.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate? Yes No No Not Applicable
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.
	Thek fiere to enter text.
C.	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 formerly employed by the TCEQ who represented your company and was paid for service regarding the application:
	Click here to enter text.
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes , provide the following information:
	Account number: Click here to enter text. Amount past due: Click here to enter text.
E.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes , please provide the following information:
	Enforcement order number: Click here to enter text. Amount past due: Click here to

Section 13. Attachments (Instructions Page 38)

Indicate which attachments are included with the Administrative Report. Check all that apply:

- Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☑ Original full-size USGS Topographic Map with the following information: Attachment 3
 - Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)
 - Highlighted discharge route for each discharge point (TPDES only)
 - Onsite sewage sludge disposal site (if applicable)
 - Effluent disposal site boundaries (TLAP only)
 - New and future construction (if applicable)
 - 1 mile radius information
 - 3 miles downstream information (TPDES only)
 - All ponds.
- Attachment 1 for Individuals as co-applicants
- ☑ Other Attachments. Please specify: See Table of Contents

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WO0010495076

Applicant: City of Houston

Certification:

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

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

Signatory name (typed or printed): <u>Carol Haddock, P.E.</u>

Parol Stadologle

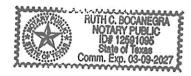
Signatory title: <u>Director</u>, <u>Houston Public Works</u>

018111111111111111111111111111111111111	11100				
(Use blue ink)			· · · · · · · · · · · · · · · · · · ·		
Subscribed and Sworn to before	me by the	said Carol	Hadd	OCK	
on this 20^{11}	day of	Novembe	er -	_, 20 <u>25</u> .	
My commission expires on the_	9th	_day of <i>Mar</i>	ch	<u>, 20 27</u> .	

Ruth C. Bocanegra Notary Public

County, Texas

[SEAL]



Date: 11/28/2023

Section 15. Plain Language Summary (Instructions Page 40)

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. City of Houston (CN600128995) operates the Northwest Wastewater Treatment Facility (RN101610665). an activated sludge – extended aeration wastewater treatment facility. The facility is located at 5423 Mangum Road, in Houston, Harris County, Texas 77091.

This application is for a permit renewal to discharge an annual average flow of 18,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD $_5$), total suspended solids (TSS), ammonia-nitrogen (NH $_3$ N), and *E. coli*. Additional potential pollutants are included in the permit application package in Domestic Technical Report 1.0, Section 7 – Pollutant Analysis of Treated Effluent and Domestic Technical Report 4.0. Domestic wastewater is treated by activated sludge – extended aeration. Treatment units include bar screens for preliminary treatment, aeration basins for biological treatment, secondary clarifiers for solids settling, and chlorine contact basins for disinfection. Solids from the facility are pumped or trucked offsite for further treatment and disposal.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La ciudad de Houston (CN600128995) opera la instalación de tratamiento de aguas residuales Northwest Wastewater Treatment Facility (RN101610665), un lodos activados - aireación prolongada instalación de tratamiento de aguas residuales. La instalación está situada en 5423 Mangum Road, Houston, en el condado de Harris, Texas 77091.

Esta solicitud es para la renovación para descargar un flujo medio anual de 18,000,000 galones por día de aguas residuales domesticas tratadas por el emisario 001.

Se espera que los vertidos de la instalación contengan demanda bioquímica de oxígeno carbónico de cinco días ($CBOD_5$), sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH_3 -N), y Escherichia coli (E. coli). Otros contaminantes potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7 - Análisis de Contaminantes del Efluente Tratado y en la hoja de trabajo doméstica 4.0. Las aguas residuales domésticas se tratan con lodos activados - aireación prolongada. Las unidades de tratamiento incluyen pantalla de barra para tratamiento preliminar; cuencas de aireación y canales de licor mixto para tratamiento biológico, clarificadores secundario para la sedimentación de sólidos, y cuenca de contacto con el cloro para la desinfección. Sólidos de la instalación se bombean o son transportadas en camión para más tratamiento y eliminación.

CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been 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. 10053 and 10054. Version dated 6/25/2018 or later.)			\boxtimes	Yes	
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mails	ing aa	ldress.)		Yes	
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)				Yes	
Current/Non-Expired, Executed Lease Agreement or Easement Attached	\boxtimes	N/A		Yes	
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 boundaries of contiguous property owned by the applicant. The applicant cannot be its own adjacent landowner. You must a landowners immediately adjacent to their property, regardless of from the actual facility. If the applicant's property is adjacent to a road, creek, or stream the opposite side must be identified. Although the properties are applicant's property boundary, they are considered potentially at the adjacent road is a divided highway as identified on the USGS applicant does not have to identify the landowners on the opposition highway. 	idention find the second secon	fy the	ey are vners nt to owner c map	on rs. If	
Landowners Cross Reference List (See instructions for landowner requirements)		N/A		Yes	
Landowners Labels or USB Drive attached					
Original signature per 30 TAC § 305.44 - Blue Ink Preferred (If signature page is not signed by an elected official or principle executive a copy of signature authority/delegation letter must be attached)	fficer	,		Yes	



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY **DOMESTIC WASTEWATER PERMIT APPLICATION**

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications Renewal, New, And Amendment

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A.	Existing,	/Interim	T	Phase
Z A.	Linduig/	miccini	•	LILLOC

Design Flow (MGD): 18

2-Hr Peak Flow (MGD): 82

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

N/A B. Interim II Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date: Click here to enter text.

Estimated waste disposal start date: Click here to enter text

N/A C. Final Phase

Design Flow (MGD): Clack here to enter lead.

2-Hr Peak Flow (MGD): Click here to ententext.

Estimated construction start date: Click have to enter text.

Estimated waste disposal start date: Click here to unter text.

RECEIVED
DEC 0 1 2023

Water Quality Applications Team

D. Current operating phase: Existing

Provide the startup date of the facility: Annexed by the City of Houston prior to 1970

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

Provide a detailed description of the treatment process. Include the type of

TCEQ-10054 (06/01/2017)

Page 1 of 80

treatment plant, mode of operation, and all treatment units. Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed in the permit, a description of** *each phase* **must be provided**. Process description:

Influent is initially treated by bar screens (02), followed by biological treatment using activated sludge – extended aeration (17), secondary clarification (22), disinfection (51), dechlorination (50), and discharge to the receiving stream via Outfall 001. Sludge is pumped or trucked offsite for further treatment and disposal.

Port or pipe diameter at the discharge point, in inches: 96

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of each treatment unit, accounting for *all* phases of operation.

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Attachment 4		

C. Process flow diagrams

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: 5

Section 3. Site Drawing (Instructions Page 52)

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: 6

Provide the name and a description of the area served by the treatment facility.

The facility serves a residential area in northwest Houston between the IH-610 Loop and Beltway 8.

Section 4. Unbuilt Phases (Instructions Page 52)

Is the a	pplication	for a	a renewal	of a	permit	that	contains	an	unbuilt	phase	or
phases'	?										

Yes □ No ⊠

If yes, does the existing permit contain a phase that has not been constructed within five years of being authorized by the TCEQ?

Yes □ No □

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.

Click here to enter text.

Section 5. Closure Plans (Instructions Page 53)
Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years? Yes \square No \boxtimes
If yes, was a closure plan submitted to the TCEQ?
Yes □ No □
If yes, provide a brief description of the closure and the date of plan approval.
Click here to enter text.
Section 6. Permit Specific Requirements (Instructions Page 53)
For applicants with an existing permit, check the <i>Other Requirements</i> or <i>Special Provisions</i> of the permit.
A. Summary transmittal
Have plans and specifications been approved for the existing facilities and each proposed phase? Yes \boxtimes No \square
If yes, provide the date(s) of approval for each phase: 1970
Provide information, including dates, on any actions taken to meet a requirement or provision pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
N/A
B. Buffer zones
Have the buffer zone requirements been met? Yes \boxtimes No \square
Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Click here to enter text.
C. Other actions required by the current permit
Does the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc. Yes \boxtimes No \square
If yes, provide information below on the status of any actions taken to meet the conditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
Sludge information is maintained as required by Other Requirements, No. 6.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

Yes □ No ⊠

If No, stop here and continue with Subsection E. Stormwater Management.

N/A 2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click here to entertext.
N/A 3. Grit disposal
Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal? Yes No
If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.
Describe the method of grit disposal.
Click here to enter text.
N/A 4. Grease and decanted liquid disposal
Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.
Describe how the decant and grease are treated and disposed of after grit separation.
Click here to enter text.
E. Stormwater management
1. Applicability
Does the facility have a design flow of 1.0 MGD or greater in any phase?
Yes ⊠ No □
Does the facility have an approved pretreatment program, under 40 CFR Part
403?

TCEQ-10054 (06/01/2017) Domestic Wastewater Permit Application, Technical Reports

Yes ⊠ No □
If no to both of the above , then skip to Subsection F, Other Wastes Received.
2. MSGP coverage
Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000? Yes \boxtimes No \square
If yes, please provide MSGP Authorization Number and skip to Subsection F Other Wastes Received: TXR05 FF62 or TXRNE
If no, do you intend to seek coverage under TXR050000?
Yes □ No □
3. Conditional exclusion
Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)? Yes No
If yes, please explain below then proceed to Subsection F, Other Wastes
Received:
Click here to enter test.
4. Existing coverage in individual permit
Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit? Yes No
If ves. provide a description of stormwater runoff management practices at

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click here to enter text.	
5. Zero stormwater discharge	
Do you intend to have no discharge of stormwater via use of evaporation or other means? Yes \square No \boxtimes	
If yes, explain below then skip to Subsection F. Other Wastes Received.	

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

Yes □ No ⊠

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click here to enter text.
Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F. Discharges to the Lake Houston Watershed
Does the facility discharge in the Lake Houston watershed? Yes \square No \boxtimes
If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.
G. Other wastes received including sludge from other WWTPs and septic waste
1. Acceptance of sludge from other WWTPs
Does the facility accept or will it accept sludge from other treatment plants at the facility site? Yes □ No ☒
If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.
In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the
influent from the collection system. Also note if this information has or has not changed since the last permit action.
Click here to enter text.

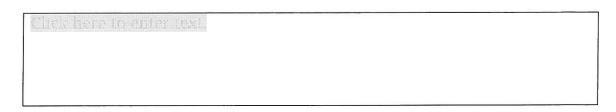
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste
Is the facility accepting or will it accept septic waste?
Yes □ No ⊠
If yes, does the facility have a Type V processing unit?
Yes □ No □
If yes, does the unit have a Municipal Solid Waste permit?
Yes □ No □
If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)
Is the facility accepting or will it accept wastes that are not domestic in nature excluding the categories listed above?

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

No ⊠

Yes



Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

Is the facility in operation?

Yes ⊠

No □

If no, this section is not applicable. Proceed to Section 8.

If yes, provide effluent analysis data for the listed pollutants. *Wastewater treatment facilities* complete Table 1.0(2). *Water treatment facilities* discharging filter backwash water, complete Table 1.0(3).

Note: The sample date must be within 1 year of application submission.

Attachment 7

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Dollatont	Average	Max	No. of	Sample	Sample
Pollutant	Conc.	Conc.	Samples	Туре	Date/Time
CBOD ₅ , mg/l	3.40	3.40	1	Comp	10/10/23 @ 8:00 am
Total Suspended Solids, mg/l	5.2	5.2	1	Comp	10/10/23 @ 8:00 am
Ammonia Nitrogen, mg/l	0.628	0.628	1	Comp	10/10/23 @ 8:00 am
Nitrate Nitrogen, mg/l	5.895	8.85	2	Comp	10/10/23 @ 8:00 am
Total Kjeldahl Nitrogen, mg/l	2.02	2.02	1	Comp	10/10/23 @ 8:00 am
Sulfate, mg/l	99.9	99.9	1	Comp	10/10/23 @ 8:00 am
Chloride, mg/l	134	134	1	Comp	10/10/23 @ 8:00 am
Total Phosphorus, mg/l	0.303	0.303	1	Comp	10/10/23 @ 8:00 am
pH, standard units	7.40	7.40	1	Grab	10/9/23 @ 6:59 am
Dissolved Oxygen*, mg/l	6.40	6.40	1	Grab	10/9/23 @ 6:59 am
Chlorine Residual, mg/l	<0.100	<0.100	1	Grab	10/9/23 @ 6:59 am
E.coli (CFU/100ml) freshwater	<1	<1	1	Grab	10/9/23 @ 6:59 am
Entercocci (CFU/100ml)	n/a				

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l	589	589	1	Comp	10/10/23 @ 8:00 am
Electrical Conductivity, µmohs/cm, †	n/a				
Oil & Grease, mg/l	<1.62	<1.62	1	Grab	10/9/23 @ 12:03 pm
Alkalinity (CaCO ₃)*, mg/l	116	116	1	Comp	10/10/23 @ 8:00 am

^{*}TPDES permits only

N/A Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average	Max	No. of	Sample	Sample
Ponutant	Conc.	Conc.	Samples	Type	Date/Time
Total Suspended Solids, mg/l	47				
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Attachment 8

Facility Operator's License Classification and Level: <u>Attachment 8</u>

Facility Operator's License Number: <u>Attachment 8</u>

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the

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[†]TLAP permits only

follow	ing list. Check all that apply.					
9823 503 927 533 55,00	Permitted landfill					
	Permitted or Registered land application site for beneficial use					
	Land application for beneficial use authorized in the wastewater perm					
	Permitted sludge processing facility					
	Marketing and distribution as authorized in the wastewater permit					
2000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Composting as authorized in the wastewater permit					
	Permitted surface disposal site (sludge monofill)					
	Surface disposal site (sludge monofill) authorized in the wastewater					
	permit					
	Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application. WWTPs accepting sludge will be owned Other:					
	other: by the City of Houston.					
	Sludge disposal site					
	al site name: <u>City of Houston - 69th Street WWTP</u>					
-	permit or registration number: <u>WQ0010495090</u>					
County	where disposal site is located: <u>Harris</u>					
C. S	Sludge transportation method					
Method	l of transportation (truck, train, pipe, other): <u>Pipe</u>					
Name o	of the hauler: <u>n/a</u>					
Hauler	registration number: <u>n/a</u>					
Sludge	is transported as a:					
L	iquid \square semi-liquid \boxtimes semi-solid \square solid \square					

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization					
Does the existing permit include authorization for land application of sewage sludge for beneficial use? Yes \square No \boxtimes					
If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use? Yes \square No \square					
If yes, is the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451) attached to this permit application (see the instructions for details)? Yes No					
B. Sludge processing authorization					
Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?					
Sludge Composting	Yes □	No ⊠			
Marketing and Distribution of sludge	Yes □	No ⊠			
Sludge Surface Disposal or Sludge Monofill	Yes □	No ⊠			
Temporary storage in sludge lagoons	Yes □	No ⊠			
If yes to any of the above sludge options and the continue this authorization, is the completed Do: Application: Sewage Sludge Technical Report (Tattached to this permit application? Yes No	mestic Was	tewater Permit			
Section 11. Sewage Sludge Lagoons ((nstructio	ns Page 61)			
Does this facility include sewage sludge lagor	ns?				
Yes □ No ⊠					
If yes, complete the remainder of this section. If no, proceed to Section 12.					
N/A A. Location information					
The following maps are required to be submitted as part of the application. For					

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each map, provide the Attachment Number.

Original General Highway (County) Map:
Attachment: Click here to enter text,
 USDA Natural Resources Conservation Service Soil Map:
Attachment: Click here to enter text.
Federal Emergency Management Map:
Attachment: Click here to enter text
Site map:
Attachment: Click here to enter text
Discuss in a description if any of the following exist within the lagoon area.
Check all that apply.
Overlap a designated 100-year frequency flood plain
☐ Soils with flooding classification
☐ Overlap an unstable area
☐ Wetlands
☐ Located less than 60 meters from a fault
Located less than 60 meters from a faunt
□ None of the above
Attachment: Click here to enter text
If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:
Click here to enter text.
N/A B. Temporary storage information
Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0. Nitrate Nitrogen, mg/kg:
Total Kjeldahl Nitrogen, mg/kg: Click here to enter text
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:
Phosphorus, mg/kg: Click have to enter taxt

Potassium, mg/kg: Click here to enter text.
pH, standard units: Click here to enter text
Ammonia Nitrogen mg/kg: Click here to enter text.
Arsenic: Click here to enter text.
Cadmium: Click here to entertext.
Chromium: Click here to enter text.
Copper: Click here to enter text.
Lead: Click here to enter text.
Mercury: Chak here to enter text.
Molybdenum: Click here to enter text.
Nickel: Chek here to enter text.
Selenium: Click here to enter fext.
Zinc: Click here to enter text.
Total PCBs: Click here to enter text.
Provide the following information: Volume and frequency of sludge to the lagoon(s):
Total dry tons stored in the lagoons(s) per 365-day period: Click here to
enter text.
Total dry tons stored in the lagoons(s) over the life of the unit:
enter text.
N/A C. Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec? Yes \square No \square
If yes, describe the liner below. Please note that a liner is required.
Click here to enter text.

N/A D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the

lago	on(s):
	k here to enter text.
Attac	ch the following documents to the application.
•	Plan view and cross-section of the sludge lagoon(s)
	Attachment: Click dere to enter text
•	Copy of the closure plan
	Attachment: Chek here to enter text,
•	Copy of deed recordation for the site
	Attachment: Click here to ententes to
•	Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
	Attachment: Click here to enter text.
•	Description of the method of controlling infiltration of groundwater and surface water from entering the site
	Attachment: Chek here to enter text.
•	Procedures to prevent the occurrence of nuisance conditions
	Attachment:
J/A E.	Groundwater monitoring
availa other	bundwater monitoring currently conducted at this site, or are any wells able for groundwater monitoring, or are groundwater monitoring data wise available for the sludge lagoon(s)? les \square No \square
of soi	undwater monitoring data are available, provide a copy. Provide a profile l types encountered down to the groundwater table and the depth to the owest groundwater as a separate attachment.
A	ttachment: Click here to enter text.

Section 12. Authorizations/Compliance/Enforcement

(Instructions Page 63)

A. Additional authorizations
Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc? Yes \boxtimes No \square
If yes, provide the TCEQ authorization number and description of the authorization:
MSGP Stormwater Permit TXR05FF62, Chapter 210 Reclaimed Water Authorization R10495076
B. Permittee enforcement status
Is the permittee currently under enforcement for this facility? Yes \square No \boxtimes
Is the permittee required to meet an implementation schedule for compliance or enforcement?

If yes to either question, provide a brief summary of the enforcement, the

implementation schedule, and the current status:

No □

On March 31, 2021 the U.S. District Court for the Southern District of Texas approved entry of a Consent Decree (Civil Action No.4:18-cv-03368) embodying the agreement of the City of Houston ("City") with the United States Environmental Protection Agency ("EPA") and the State of Texas ("State") to improve the City's Wastewater Treatment and Collection System including requirements to address sanitary sewer overflows ("SSOs") and wastewater treatment plant permit exceedances. The consent decree provides formal authorization for the City to continue and build upon its prior and ongoing work for wastewater assessment and rehabilitation programs over the next 15 years. Details of the approved consent decree are posted on the City's website at https://www.publicworks.houstontx.gov/.

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

Yes □ No ⊠

Yes ⊠

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

Yes □ No ⊠

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click here to enter text.

Section 14. Laboratory Accreditation (Instructions Page 64)

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:
 - o periodically inspected by the TCEQ; or
 - located in another state and is accredited or inspected by that state; or
 - o 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: Carol Haddock, P.E.

Title: <u>Director</u>, <u>Houston Public Works</u>

Signature:

Date: 11/28/2023

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge? Yes □ No ⊠
If yes, provide the following: Owner of the drinking water supply:
Distance and direction to the intake: Chek here to enter text.
Attach a USGS map that identifies the location of the intake.
Attachment: Clirk here to enter text.
Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)
Does the facility discharge into tidally affected waters?
Yes □ No ⊠ If yes, complete the remainder of this section. If no, proceed to Section 3.
if yes, complete the remainder of this section. If no, proceed to section 5.
N/A A. Receiving water outfall
Width of the receiving water at the outfall, in feet: Click here to enter text.
N/A B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
Yes □ No □
If yes, provide the distance and direction from outfall(s).
Click here to enter text.

N/A C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
Yes □ No □
If yes, provide the distance and direction from the outfall(s).
Click here to enter text.
Section 3. Classified Segments (Instructions Page 73)
Is the discharge directly into (or within 300 feet of) a classified segment?
Yes ⊠ No □
If yes, this Worksheet is complete.
If no, complete Sections 4 and 5 of this Worksheet.
Section 4. Description of Immediate Receiving Waters
(Instructions Page 75)
Name of the immediate receiving waters: Click here to enter text.
A. Receiving water type
Identify the appropriate description of the receiving waters.
□ Stream
☐ Freshwater Swamp or Marsh
□ Lake or Pond
Extend
Surface area, in acres: Click here to enter text
Average depth of the entire water body, in feet:
LEST.
Average depth of water body within a 500-foot radius of discharge point, in feet:
☐ Man-made Channel or Ditch

	Open Bay
	Tidal Stream, Bayou, or Marsh
ENFANCE CONTRACTOR	Other, specify: Click here to ententest.
B. Fl	low characteristics
followin characte	am, man-made channel or ditch was checked above, provide the leg. For existing discharges, check one of the following that best erizes the area <i>upstream</i> of the discharge. For new discharges, erize the area <i>downstream</i> of the discharge (check one). Intermittent - dry for at least one week during most years
	Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
	Perennial - normally flowing
	ne method used to characterize the area upstream (or downstream for chargers). USGS flow records
	Historical observation by adjacent landowners
1920 1920 1930	Personal observation
English of the second	Other, specify: Click here to enter text
C. Do	ownstream perennial confluences
	names of all perennial streams that join the receiving water within les downstream of the discharge point.
Clic	k here its enter text.
D. Do	wnstream characteristics
	eceiving water characteristics change within three miles downstream of large (e.g., natural or man-made dams, ponds, reservoirs, etc.)? Yes No
If yes, di	scuss how.

	here to enter text.		
Ε.	Normal dry weather chara	cterist	ics
Provid condit		ne wat	er body during normal dry weather
KARANTI MARKANIA	here to enter text.		
Date a	nd time of observation:		to enter text
Was th	e water body influenced by	storm	water runoff during observations?
	Yes □ No □		
	on 5. General Character Page 74)	istics	of the Waterbody (Instructions
A. U	U pstream influences		
			am of the discharge or proposed ollowing? Check all that apply.
	Oil field activities		Urban runoff
	Upstream discharges		Agricultural runoff
	Septic tanks		Other(s), specify
B. V	Vaterbody uses		
Observ	ed or evidences of the follo	wing u	ises. Check all that apply.
	Livestock watering		Contact recreation
	Irrigation withdrawal	2000 mg / 1000 m	Non-contact recreation
	Fishing		Navigation

N/A

	Domestic water supply		Industrial water supply
	Park activities		Other(s), specify Challete to enter
tex			
C. V	Waterbody aesthetics		
	eck one of the following that eiving water and the surrou		describes the aesthetics of the area.
	Wilderness: outstanding na area; water clarity excepti		beauty; usually wooded or unpastured
			e vegetation; some development dwellings); water clarity discolored
	Common Setting: not offer be colored or turbid	sive;	developed but uncluttered; water may
	Offensive: stream does not developed; dumping areas		nce aesthetics; cluttered; highly er discolored

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

The following is required for facilities with a permitted or proposed flow of 1.0 MGD or greater, facilities with an approved pretreatment program, or facilities classified as a major facility. See instructions for further details.

This worksheet is not required for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab □

Composite ⊠

Date and time sample(s) collected: <u>8/24/23 @ 9:50 pm, 8/25/23 @ 8:00 am, 10/9/23 @ 10:30 pm, 10/10/23 @ 8:00 am</u>

Attachment 7

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile	<50	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	31	31	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	1.54	1.54	1	0.5
Barium	55.5	55.5	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroform	13.5	13.5	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	3.9	3.9	1	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
p-Cresol	<10	<10	1	10
Cyanide (*2)	<10	<10	2	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.2	<0.2	1	0.20
Diazinon	<0.5	<0.5	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	<500	<500	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane	<0.05	<0.05	1	0.05
(Lindane)				
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	1	0.5

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Malathion	<0.1	<0.1	1	0.1
Mercury	<0.005	<0.005	2	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	2.35	2.35	1	2
Nitrate-Nitrogen	5895	8850	2	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5
Phenanthrene	<10	<10	1	10
Polychlorinated Biphenyls (PCB's) (*3)	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	n/a			0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	39.9	39.9	1	5

^(*1) Determined by subtracting hexavalent Cr from total Cr.

^(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

^(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab □

Composite ⊠

Date and time sample(s) collected: 8/24/23 @ 9:50 pm, 8/25/23 @ 8:00 am, 10/9/23 @ 10:30 pm, 10/10/23 @ 8:00 am

Attachment 7

Table 4.0(2)A - Metals, Cyanide, Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5	<5	1	5
Arsenic	1.54	1.54	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1	<1	1	1
Chromium (Total)	<3	<3	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	3.9	3.9	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	<0.005	<0.005	2	0.005
Nickel	2.35	2.35	1	2
Selenium	<5	<5	1	. 5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	39.9	39.9	1	5
Cyanide (*2)	<10	<10	2	10
Phenols, Total	<10	<10	1	10

^(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B - Volatile Compounds

		·		
	AVG Effluent	MAX Effluent	Number	MAL
Pollutant	Conc.	Conc.	of	(μg/l)
	(μg/l)	(µg/l)	Samples	
Acrolein	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	13.5	13.5	1	10
Dichlorobromomethane	<10	<10	1	
[Bromodichloromethane]				10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene	<10	<10	1	
[1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10

Table 4.0(2)C - Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
2-Chlorophenol	<10	<10	1	10
2,4-Dichlorophenol	<10	<10	1	10
2,4-Dimethylphenol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol	<10	<10	1	10
Pentalchlorophenol	<5	<5	1	5
Phenol	<10	<10	1	10
2,4,6-Trichlorophenol	<10	<10	1	10

Table 4.0(2)D - Base/Neutral Compounds

	AVG	MAX	T	1
	Effluent	Effluent	Number	MAL
Pollutant	Conc.	Conc.	of	12
	2016	10 5000	Samples	(μg/l)
	(μg/l)	(μg/l)		
Acenaphthene	<10	<10	1	10
Acenaphthylene	<10	<10	1	10
Anthracene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)Anthracene	<5	<5	1	5
Benzo(a)Pyrene	<5	<5	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5	<5	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether	<10	<10	1	10
Bis(2-Ethylhexyl)Phthalate	<10	<10	1	10
4-Bromophenyl Phenyl Ether	<10	<10	1	10
Butyl benzyl Phthalate	<10	<10	1	10
2-Chloronaphthalene	<10	<10	1	10
4-Chlorophenyl phenyl ether	<10	<10	1	10
Chrysene	<5	<5	1	5
Dibenzo(a,h)Anthracene	<5	<5	1	5
1,2-(o)Dichlorobenzene	<10	<10	1	10
1,3-(m)Dichlorobenzene	<10	<10	1	10
1,4-(p)Dichlorobenzene	<10	<10	1	10
3,3-Dichlorobenzidine	<5	<5	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<10	<10	1	10
2,6-Dinitrotoluene	<10	<10	1	10
Di-n-Octyl Phthalate	<10	<10	1	10
1,2-Diphenylhydrazine (as Azo-	<20	<20	1	
benzene)				20
Fluoranthene	<10	<10	1	10
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5	<5	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<50	<50	1	50
N-Nitrosodi-n-Propylamine	<20	<20	1	20
N-Nitrosodiphenylamine	<20	<20	1	20
Phenanthrene	<10	<10	1	10
Pyrene	<10	<10	1	10
1,2,4-Trichlorobenzene	<10	<10	1	10

Table 4.0(2)E - Pesticides

	AVG	MAX		
_ ,	Effluent	Effluent	Number	MAL
Pollutant	Conc.	Conc.	of	(μg/l)
	(µg/l)	(μg/l)	Samples	
Aldrin	<0.01	<0.01	1	0.01
alpha-BHC	<0.05	<0.05	1	
(Hexachlorocyclohexane)				0.05
beta-BHC	<0.05	<0.05	1	
(Hexachlorocyclohexane)				0.05
gamma-BHC	< 0.05	<0.05	1	
(Hexachlorocyclohexane)				0.05
delta-BHC	<0.05	<0.05	1	
(Hexachlorocyclohexane)				0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	< 0.02	<0.02	1	0.02
4,4-DDE	<0.1	<0.1	1	0.1
4,4,-DDD	<0.1	<0.1	1	0.1
Dieldrin	<0.02	<0.02	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Endrin Aldehyde	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.3	<0.3	1	0.3

^{*} For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

N/A Section 3. Dioxin/Furan Compounds

	3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3
A.	Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.
	2,4,5-trichlorophenoxy acetic acid Common Name 2,4,5-T, CASRN 93-76-5
	2-(2,4,5-trichlorophenoxy) propanoic acid Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
	2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate Common Name Erbon, CASRN 136-25-4
	0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate Common Name Ronnel, CASRN 299-84-3
	2,4,5-trichlorophenol Common Name TCP, CASRN 95-95-4
	hexachlorophene Common Name HCP, CASRN 70-30-4
	For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

B. Do you 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 your effluent?
Yes □ No □
If yes , provide a brief description of the conditions for its presence.
Click here to enter text.
If any of the compounds in Subsection A or B are present, complete Table 4.0(2)F.
For pollutants identified in Table 4.0(2)F, indicate the type of sample.
Grab □ Composite □
Date and time sample(s) collected: Click here to enter text.

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8	0.5					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	XI.			1	10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1	-				50
2,3,4,7,8	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total		,				

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: Attachment 9

48-hour Acute: n/a

Section 2. Toxicity Reduction Evaluations (TREs)

section 2. Toxicity Reduction Evaluations (TRES)
Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?
Yes □ No ⊠
If yes , describe the progress to date, if applicable, in identifying and confirming the toxicant.
Click here to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) - Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub- lethal
	Attachment 9		
-			
			Name -

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 5

Average Daily Flows, in MGD: <u>0.04279</u>

Significant IUs - non-categorical:

Number of IUs: 4

Average Daily Flows, in MGD: <u>0.30427</u>

Other IUs:

Number of IUs: 4

Average Daily Flows, in MGD: 0.08707

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

Yes □ No ⊠

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

<u>n/a</u>	

	1940		and the second s
Twootresoret		***	+1
 Treatment	mam	Dass	Inrollen
 A A COLCARACTE	PACIFIC	Paul	CIII O CASI

In the past three year	s, has your	POTW	experienced	pass	through (s	see
instructions)?			- 2.			

Yes □ No ⊠

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

n/a

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ⊠

No □

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ⊠

No □

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?

Yes □

No ⊠

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

n/a
B. Non-substantial modifications
Have there been any non-substantial modifications to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?
Yes □ No ⊠
If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.
<u>n/a</u>
C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
Attachment 10				
				n

C. Product and service information

Provide a description of the principal product(s) or services performed.

3					
Chek here to enter					
D. Flow rate info	rmat	ion			
See the Instructions	for d	efinitions of "pro	ess" and "no	n-proces	s wastewater."
Process Wastewater:					
Discharge, in g	gallor	ns/day: Olick here	to enter fext.		
Discharge Typ	e: 🗆	Continuous	Batch		Intermittent
Non-Process Wastew	ater:				
Discharge, in g	gallor	ıs/day: Click here	to enter text.		
Discharge Typ	e: 🗆	Continuous 🗆	Batch	Production of the second	Intermittent
E. Pretreatment	stand	lards			
Is the SIU or CIU sub instructions?	ject t	o technically base	d local limits	as defin	ed in the
Yes □	N	lo □			
Is the SIU or CIU subj Parts 405-471?	ject t	o categorical preti	reatment star	ıdards fo	und in 40 CFR
Yes □	N	Io □			
If subject to categor category and subcate				te the ap	plicable
Category: Click here Subcategories:		ter text. here to enter text			
Category: Subcategories:		ter jext. here to enter text			
Category: Class have Subcategories:		ter text. Here to enter text			
Category: Click here Subcategories:	a eni Click	er jext. here to enter lext			
Category: Click bereal Subcategories: Cli					

F. Industrial user interruptions					
Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?					
Yes □ No □					
If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.					
Click here to enter text.					

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Attachment 1

Copy of Application Fee Check

Administrative Report 1.0, Section 1

City of Houston | Houston Public Works | Houston Water

Attachment 3

USGS Map

Administrative Report 1.0, Section 13

City of Houston | Houston Public Works | Houston Water

Attachment 4

Treatment Units

Domestic Technical Report 1.0, Section 2.B.

CITY OF HOUSTON NORTHWEST WWTP TPDES PERMIT RENEWAL

TREATMENT UNITS

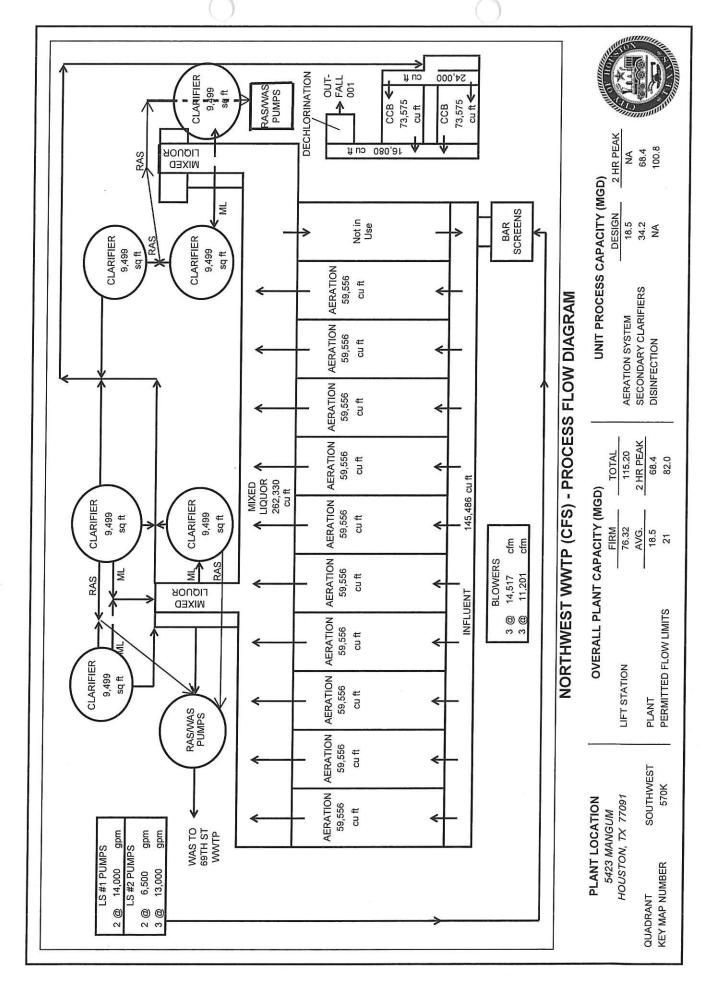
Unit	Quantity	Dimensions
Aeration Basin	10	140' x 30' x 14.18'
Influent Channel	1	342' x 30' x 14.18'
Mixed Channel	2	400' x 20' x 14.18'
Mixed Oriannel	2	125' x 10' x 14.18'
Clarifier	6	110' Diameter x 13.55' SWD
Chlorine Contact Basin Influent Channel	1	100' x 16' x 15'
Chlorine Contact Basin	2	109' x 45' x 15'
Chlorine Contact Basin Effluent Channel	1	134' x 8' x 15'

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Attachment 5

Process Flow Diagram

Domestic Technical Report 1.0, Section 2.C.

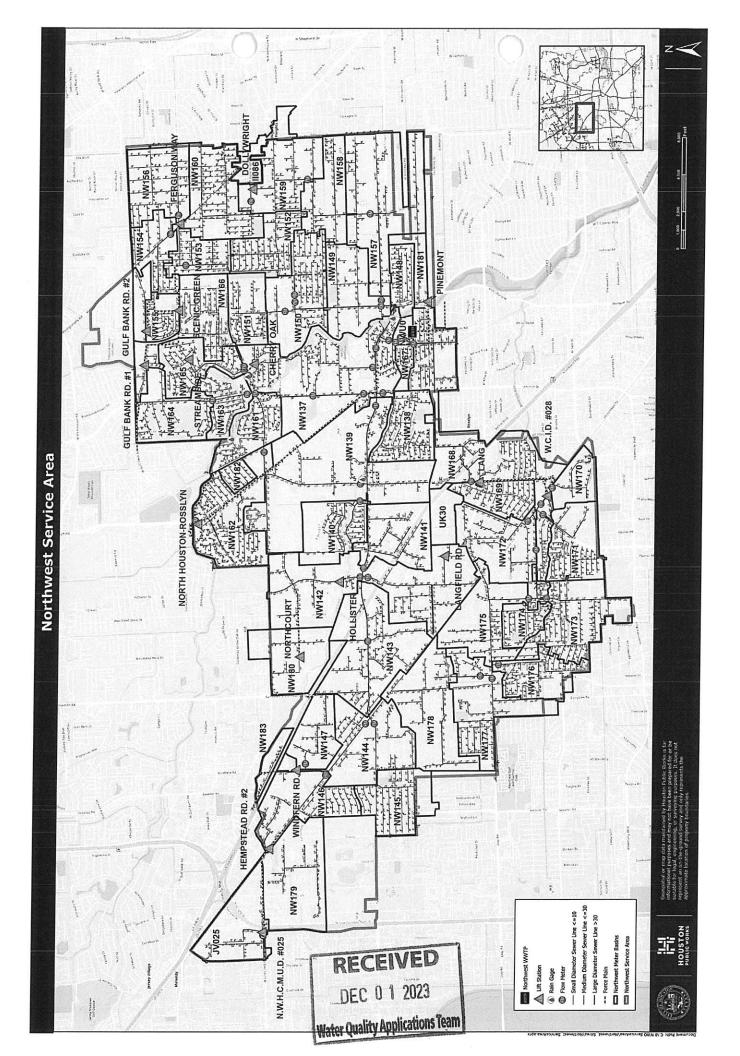


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Attachment 6

Site Drawing

Domestic Technical Report 1.0, Section 3



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Attachment 7

Laboratory Test Reports and COCs

Domestic Technical Report 1.0, Section 7, Table 1.0(2)
Domestic Worksheet 4.0, Section 1
Domestic Worksheet 4.0, Section 2



November 09, 2023

ANALYTICAL REPORT

City of Houston Wastewater Operations Laboratory 10500 Bellaire Blvd Houston, TX 77072

Regulatory Compliance Northwest 5423 Mangum Rd Houston, TX 77091

Project Site: Northwest Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 8/25/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm Division Manager





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

PDFFileStart [TOCPAGEMARKER] PDFFileEnd





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Samples in this Report

Lab ID	Sample		Matrix	Date Sampled	Date Received
23H1064-01	SP 1_CompMan	Northwest Influent	Water	08/24/2023 22:07	08/25/2023 11:56
23H1064-02	SP 1_Comp	Northwest Influent	Water	08/25/2023 06:00	08/25/2023 11:56
23H1064-03	SP 2_CompMan	Northwest Effluent	Water	08/24/2023 21:50	08/25/2023 11:56
23H1064-04	SP 2_Comp	Northwest Effluent	Water	08/25/2023 08:00	08/25/2023 11:56
23H1064-05	Field Blank	Field Blank Northwest	Water	08/24/2023 04:59	08/25/2023 11:56



Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

Sample: SP 1_CompMan Northwest Influent 23H1064-01 (Water)

Analyte	Result	Qual DL	RL	Units	Date Prepare	ed Date Ana	lyzed	Analyst Initials	Method
Volatile Organics									
1,1,1-Trichloroethane	ND	1.03	5.00	ug/L	08/28/2023 08	3:00 08/28/2023	13:13	SRB	EPA 624.1
1,1,2,2-Tetrachloroethane	ND	0.502	5.00	ug/L	08/28/2023 08	3:00 08/28/2023	13:13	SRB	EPA 624.1
1,1,2-Trichloroethane	ND	0.471	5.00	ug/L	08/28/2023 08	3:00 08/28/2023	13:13	SRB	EPA 624.1
1,1-Dichloroethane	ND	0.919	5.00	ug/L	08/28/2023 08	:00 08/28/2023	13:13	SRB	EPA 624.1
1,1-Dichloroethene	ND	0.745	5.00	ug/L	08/28/2023 08	:00 08/28/2023	13:13	SRB	EPA 624.1
1,2-Dibromoethane	ND	0.621	5.00	ug/L	08/28/2023 08	:00 08/28/2023	13:13	SRB	EPA 624.1
1,2-Dichlorobenzene	ND	1.23	5.00	ug/L	08/28/2023 08	:00 08/28/2023	13:13	SRB	EPA 624.1
1,2-Dichloroethane	ND	0.803	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
1,2-Dichloropropane	ND	0.513	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
1,3-Dichlorobenzene	ND	1.28	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
1,4-Dichlorobenzene	4.41 J	1.21	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
2-Butanone	9.35 J	2.56	10.0	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
2-Chloroethyl vinyl ether	ND	0.704	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Acrolein	ND	1.29	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Acrylonitrile	ND	1.96	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Benzene	ND	0.591	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Bromodichloromethane	ND	0.336	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Bromoform	ND	0.416	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Bromomethane	ND	1.09	5.00	ug/L	08/28/2023 08:			SRB	EPA 624.1
Carbon Disulfide	ND	1.16	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Carbon Tetrachloride	ND	0.785	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Chlorobenzene	ND	0.782	5.00	ug/L	08/28/2023 08:			SRB	EPA 624.1
Chloroethane	ND	0.583	5.00	ug/L	08/28/2023 08:	:00 08/28/2023	13:13	SRB	EPA 624.1
Chloroform	5.81	0.727	4.00	ug/L	08/28/2023 08:				EPA 624.1
chloromethane	ND	1.38	5.00	ug/L	08/28/2023 08:			20000E	EPA 624.1
cis-1,2-Dichloroethene	ND	0.562	5.00	ug/L	08/28/2023 08:	00 08/28/2023	13:13	12000	EPA 624.1
cis-1,3-Dichloropropene	ND	0.728	5.00	ug/L	08/28/2023 08:				EPA 624.1
Dibromochloromethane	ND	0.504	5.00	ug/L	08/28/2023 08:				EPA 624.1
Epichlorohydrin	ND	4,78	25.0	ug/L	08/28/2023 08:				EPA 624.1
Ethylbenzene	ND	0.807	5.00	ug/L	08/28/2023 08:				EPA 624.1
m+p-Xylene	ND	1.68	10.0	ug/L	08/28/2023 08:0				EPA 624.1
Methylene Chloride	ND	2.14	5.00	ug/L	08/28/2023 08:0				EPA 624.1
Methyl-tert-butyl ether (MTBE)	ND	0.428	5.00	ug/L	08/28/2023 08:0				EPA 624.1
o-Xylene	ND	1.00	5.00	ug/L	08/28/2023 08:0				EPA 624.1
Styrene	ND	0.793	5.00	ug/L	08/28/2023 08:0	and the second s			EPA 624.1
Tetrachloroethene	ND	0.920	5.00	ug/L	08/28/2023 08:0	rear and house the same			EPA 624.1
Toluene	4.12]	0.737	5.00	ug/L	08/28/2023 08:0	and the second			EPA 624.1
trans-1,2-Dichloroethene	ND	1,26	4.00	ug/L	08/28/2023 08:0				EPA 624.1
trans-1,3-Dichloropropene	ND	1.16	5.00	ug/L	08/28/2023 08:0				EPA 624.1
Trichloroethene	ND	0.432	5.00	ug/L	08/28/2023 08:0	Remodian Arabania			EPA 624.1
The horocalcie	NU	0,732	5.00	ug/L	00/20/2025 00.0	00 00/20/2023	13.13	SKD	-1 A UZ4.1





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 1_CompMan (Continued)Northwest Influent

23H1064-01 (Water)

								no a normalizari a salaha	Analyst	
Analyte	Result	Qual	DL	RL	Units	Date Prepai	red Date Ana	alyzed	Initials	Method
Volatile Organics (Cont	inued)					10				
Vinyl acetate	ND		0.712	5.00	ug/L	08/28/2023 0	8:00 08/28/2023	13:13	SRB	EPA 624.1
Vinyl chloride	ND		1.15	5.00	ug/L	08/28/2023 0	8:00 08/28/2023	13:13	SRB	EPA 624.1
Xylenes, Total	ND		1.00	5.00	ug/L	08/28/2023 0	8:00 08/28/2023	13:13	SRB	EPA 624.1
Total Trihalomethanes	ND		1.11	5.00	ug/L	08/28/2023 0	8:00 08/28/2023	13:13	SRB	EPA 624.1
1,3-Dichloropropene, Total	ND		0.738	5.00	ug/L	08/28/2023 0	8:00 08/28/2023	13:13	SRB	EPA 624.1
Net Chemistry										
Cyanide, Amenable	19.9		0.946	2.00	ug/L	08/25/2023 1	2:30 08/25/2023	15:02	SRB	OIA 1677
Cyanide, Total	37.5		3.14	10.0	ug/L	08/25/2023 1	2:30 08/25/2023	15:02	SRB	ASTM D7511



Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results (Continued)

Sample: SP 1_Comp Northwest Influent 23H1064-02 (Water)

Analyte	Result	Qual DL	RL	Units	Date Prepa	ared	Date Ana	alyzed	Analyst Initials	Method
							· ·			
Total Metals										
Silver	ND	1.74	20.0	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Aluminum	991	18.0	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Arsenic	ND	32.0	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Barium	181	7.94	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Beryllium	ND	1.42	20.0	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Cadmium	ND	2.74	20.0	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Chromium	18.9 J	7.39	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Copper	65.0 J	7.25	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Nickel	ND	12.6	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Lead	ND	27.2	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Antimony	ND	37.1	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Selenium	ND	43.1	100	ug/L	09/07/2023	08:12	09/08/2023	10:07	VP	EPA 200.7
Thallium	ND	82.3	200	ug/L	09/07/2023 (08:12	09/08/2023	10:07	VP	EPA 200.7
Vanadium	ND	11.9	100	ug/L	09/07/2023 (08:12	09/08/2023	10:07	VP	EPA 200.7
Zinc	227	12.9	100	ug/L	09/07/2023 (08:12	09/08/2023	10:07	VP	EPA 200.7
Mercury	0.0929]	0.0253	0.100	ug/L	08/28/2023 (08:00	08/30/2023	11:44	VP	EPA 245.1
Chromium Trivalent	18.9]	7.39	100	ug/L	09/15/2023	12:00	09/15/2023	16:06	VP	Calculated
Semivolatile Organics										
Chlorpyrifos (2)	ND	1.00923	0.256	ug/L	08/31/2023 0	08:20 (09/15/2023	15:51	RD	EPA 1657
Demeton-o (2)	ND	0.0195	0.256	ug/L	08/31/2023 0	08:20 (09/15/2023	15:51	RD	EPA 1657
Demeton-s (2)	ND	0.0164	0.256	ug/L	08/31/2023 0	08:20	09/15/2023	15:51	RD	EPA 1657
Diazinon (2)	ND	0.0133	0.256	ug/L	08/31/2023 0	8:20 (09/15/2023	15:51	RD	EPA 1657
ethyl-Parathion (2)	ND	0.0123	0.256	ug/L	08/31/2023 0	8:20 (09/15/2023	15:51	RD	EPA 1657
Malathion (2)	ND	0.0123	0.256	ug/L	08/31/2023 0	8:20 (09/15/2023	15:51	RD	EPA 1657
methyl Azinphos (Guthion) (2)	ND	0.0154	0.256	ug/L	08/31/2023 0	8:20 (9/15/2023	15:51	RD	EPA 1657
4,4'-DDD	ND	1.003900	.0255	ug/L	08/29/2023 0	9:07	08/31/2023	12:57	SRB	EPA 608.3
4,4'-DDE	ND).00156.0	0510	ug/L	08/29/2023 0				SRB	EPA 608.3
4,4'-DDT	ND	1.005190	.0255	ug/L	08/29/2023 0	9:07	08/31/2023	12:57	SRB	EPA 608.3
Aldrin	ND	0.00156.0	0510	ug/L	08/29/2023 0	9:07	8/31/2023	12:57	SRB	EPA 608.3
Alpha-BHC	ND	1.00121.0	0510	ug/L	08/29/2023 0	9:07	8/31/2023	12:57	SRB	EPA 608.3
Beta-BHC	ND	1.00243.0	0510	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57	SRB	EPA 608.3
Chlordane	ND	0.0439	0.204	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57		EPA 608.3
Delta-BHC	ND	1.00171.0	0510	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57	SRB	EPA 608.3
Dicofol	ND	0.01190.	0510	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57		EPA 608.3
Dieldrin	ND	0.00185.0	0510	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57		EPA 608.3
Endosulfan I	ND	1.00121.0	0510	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57		EPA 608.3
Endosulfan II	ND	1.003430.		ug/L	08/29/2023 0				0.0000000	EPA 608.3
Endosulfan Sulfate	ND	1.004320.	0255	ug/L	08/29/2023 0					EPA 608.3
Endrin	ND	0.01340.	0255	ug/L	08/29/2023 0	9:07 0	8/31/2023	12:57		EPA 608.3
				153						



Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 1_Comp (Continued)Northwest Influent 23H1064-02 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Pre	pared	Date Ana	alyzed	Analyst Initials	Method
Semivolatile Organics (Continue	d)									
Endrin-Aldehyde	ND		1.00221.	00510	ug/L	08/29/2023	3 09:07	08/31/2023	12:57	SRB	EPA 608.3
Gamma-BHC	ND		1.00121.	00510	ug/L	08/29/2023	3 09:07	08/31/2023	12:57	SRB	EPA 608.3
Heptachlor	ND		1.00221.	00510	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
Heptachlor epoxide	ND		1.00156.	00510	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
Methoxychlor	ND		1.00252.	00510	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
Mirex	ND		1.00156.	00510	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1016	ND		0.0778	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1221	ND		0.0121	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1232	ND		0.122	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1242	ND		0.118	0.204	ug/L			08/31/2023		SRB	EPA 608.3
PCB-1248	ND		0.0953	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1254	ND		0.0747	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
PCB-1260	ND		0.165	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
Toxaphene	ND		0.103	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
Polychlorinated biphenyls, Total	ND		0.0747	0.204	ug/L	08/29/2023	09:07	08/31/2023	12:57	SRB	EPA 608.3
1,2,4,5-Tetrachlorobenzene	ND		0.968	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
1,2,4-Trichlorobenzene	ND		0.513	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4,5-Trichlorophenol	ND		1.67	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4,6-Trichlorophenol	ND		1.18	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4-Dichlorophenol	ND		1.05	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4-Dimethylphenol	ND		0.724	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4-Dinitrophenol	ND		3.19	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,4-Dinitrotoluene	ND		1.39	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2,6-Dinitrotoluene	ND		1.37	5.13	ug/L	08/29/2023				SRB	EPA 625.1
2-Chloronaphthalene	ND		0.984	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33	SRB	EPA 625.1
2-Chlorophenol	ND		1.07	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33		EPA 625.1
2-Methylphenol	ND		1.10	5.13	ug/L	08/29/2023				SRB	EPA 625.1
2-Nitrophenol	ND		0.724	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33		EPA 625.1
3,3'-Dichlorobenzidine	ND		1.51	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33		EPA 625.1
4,6-Dinitro-2-methylphenol	ND		2.33	5.13	ug/L	08/29/2023	08:31	08/30/2023	20:33		EPA 625.1
4-Bromophenyl phenyl ether	ND		0.836	5.13	ug/L	08/29/2023					EPA 625.1
4-Chloro-3-methylphenol	ND		1.22	5.13	ug/L	08/29/2023	08:31 (08/30/2023	20:33		EPA 625.1
4-Chlorophenyl phenyl Ether	ND		1.21	5.13	ug/L	08/29/2023	08:31 (08/30/2023	20:33		EPA 625.1
4-Methylphenol	61.6		1.42	5.13	ug/L	08/29/2023	08:31 (08/30/2023	20:33		EPA 625.1
4-Nitrophenol	ND		0.993	5.13	183-00000	08/29/2023					EPA 625.1
Acenaphthene	ND		1.08	5.13		08/29/2023					EPA 625.1
Acenaphthylene	ND		0.893	5.13		08/29/2023				100000000000000000000000000000000000000	EPA 625.1
Aniline	ND		1.25	5.13	100000000000000000000000000000000000000	08/29/2023					EPA 625.1
Anthracene	ND		0.878	5.13		08/29/2023					EPA 625.1
Azobenzene	ND		1.00	5.13		08/29/2023	08:31 0	18/30/2023	20:33		EPA 625.1





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 1_Comp (Continued)Northwest Influent 23H1064-02 (Water)

Analyte	Result	Qual DL	RL	Units	Date Prepar	ed D	ate Ana	lyzed	Analyst Initials	Method
Semivolatile Organics ('Continued	l)								
Benzidine	ND	1.65	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Benzo(a)pyrene	ND	1.57	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Benzo(b)fluoranthene	ND	1.47	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Benzo(k)Fluoranthene	ND	1.04	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Benzo(g,h,i)perylene	ND	1.16	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Benzo[a]anthracene	ND	1.15	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Bis(2-chloroethoxy) methane	ND	0.852	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Bis(2-chloroethyl) ether	ND	1.11	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Bis(2-chloroisopropyl) ether	ND	0.990	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Bis(2-ethylhexyl) phthalate	3.68 J	2.72	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Butyl benzyl phthalate	ND	1.32	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Carbazole	ND	1.59	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Chrysene	ND	1.33	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Dibenzo(a,h)anthracene	ND	1.35	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Diethyl phthalate	5.48	1.31	5.13	ug/L	08/29/2023 08	8:31 08/	30/2023	20:33	SRB	EPA 625.1
Dimethyl phthalate	ND	0.934	5.13	ug/L	08/29/2023 08				SRB	EPA 625.1
Di-n-butyl phthalate	ND	1.37	5.13	ug/L	08/29/2023 08	3:31 08/	30/2023	20:33	SRB	EPA 625.1
Di-n-octyl phthalate	ND	2.13	5.13	ug/L	08/29/2023 08				SRB	EPA 625.1
Fluoranthene	ND	1.30	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Fluorene	ND	1.05	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Hexachlorobenzene	ND	0.971	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Hexachlorobutadiene	ND	0.533	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Hexachlorocyclopentadiene	ND	0.759	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Hexachloroethane	ND	0.765	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Indeno(1,2,3-cd)pyrene	ND	1.76	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Isophorone	ND	0.497	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Naphthalene	ND	0.656	5.13	ug/L	08/29/2023 08				SRB	EPA 625.1
n-Decane	ND	0.533	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Nitrobenzene	ND	0.778	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
N-Nitosodi-n-butylamine	ND	0.987	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
N-Nitrosodiethylamine	ND	1.08	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
N-Nitrosodimethylamine	ND	0.777	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
N-Nitrosodi-n-propylamine	ND	1.54	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
N-Nitrosodiphenylamine	ND	0.874	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
n-Octadecane	ND	0.910	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Pentachlorobenzene	ND	0.659	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Pentachlorophenol	ND	1.78	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Phenanthrene	ND	0.952	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Phenol	50.4	1.09	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1
Pyrene	ND	1.09	5.13	ug/L	08/29/2023 08	3:31 08/3	30/2023	20:33	SRB	EPA 625.1



Northwest

5423 Mangum Rd

Houston, TX 77091

Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 1_Comp (Continued)Northwest Influent

23H1064-02 (Water)

Analyte	Result (Qual DL	RL	Units	Date Prepa	red Date A	nalyzed	Analyst Initials	Method
Semivolatile Organics	(Continued))							
Pyridine	ND	1.00	5.13	ug/L	08/29/2023 (08:31 08/30/20	23 20:33	SRB	EPA 625.1
3-Methylphenol	ND	5.72	10.3	ug/L	08/29/2023 0	08:31 08/30/20	23 20:33	SRB	EPA 625.1
Net Chemistry									
Chromium Hexavalent	ND	0.244	1.00	ug/L	09/15/2023 1	12:00 09/15/202	23 16:06	VP	EPA 218.6



Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results (Continued)

Sample: SP 2_CompMan Northwest Effluent 23H1064-03 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prep	ared	Date Ana	alyzed	Analyst Initials	Method	
Total Metals	7 to 1000		0.000	0.55-	250250104	00 100 1000		00/20/202	44.0-	9922000		
Mercury	1.05	(0.0928	0.500	ng/L	08/28/2023	11:03	08/29/2023	14:25	KEN	EPA 1631E	
Volatile Organics												
1,1,1-Trichloroethane	ND		1.03	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,1,2,2-Tetrachloroethane	ND		0.502	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,1,2-Trichloroethane	ND		0.471	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,1-Dichloroethane	ND		0.919	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,1-Dichloroethene	ND		0.745	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,2-Dibromoethane	ND		0.621	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,2-Dichlorobenzene	ND		1.23	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,2-Dichloroethane	ND		0.803	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,2-Dichloropropane	ND		0.513	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,3-Dichlorobenzene	ND		1.28	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
1,4-Dichlorobenzene	ND		1.21	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
2-Butanone	ND		2.56	10.0	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
2-Chloroethyl vinyl ether	ND		0.704	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Acrolein	ND		1.29	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Acrylonitrile	ND		1.96	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Benzene	ND		0.591	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Bromodichloromethane	4.63]		0.336	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Bromoform	ND		0.416	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Bromomethane	ND		1.09	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Carbon Disulfide	ND		1.16	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Carbon Tetrachloride	ND		0.785	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Chlorobenzene	ND		0.782	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Chloroethane	ND		0.583	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Chloroform	13.5		0.727	4.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
chloromethane	ND		1.38	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
cis-1,2-Dichloroethene	ND		0.562	5.00	ug/L	08/28/2023				SRB	EPA 624.1	
cis-1,3-Dichloropropene	ND		0.728	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Dibromochloromethane	ND		0.504	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Epichlorohydrin	ND		4.78	25.0	ug/L	08/28/2023				SRB	EPA 624.1	
Ethylbenzene	ND		0.807	5.00	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
m+p-Xylene	ND		1.68	10.0	ug/L	08/28/2023	08:00	08/28/2023	11:49	SRB	EPA 624.1	
Methylene Chloride	ND		2.14	5.00	ug/L	08/28/2023					EPA 624.1	
Methyl-tert-butyl ether (MTBE)	ND		0.428	5.00	ug/L	08/28/2023					EPA 624.1	
o-Xylene	ND		1.00	5.00	ug/L	08/28/2023					EPA 624.1	
Styrene	ND		0.793	5.00	ug/L	08/28/2023					EPA 624.1	
Tetrachloroethene	ND		0.920	5.00	ug/L	08/28/2023					EPA 624.1	
Toluene	ND		0.737		ug/L	08/28/2023				100000000000000000000000000000000000000	EPA 624.1	



Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 2_CompMan (Continued)Northwest Effluent

23H1064-03 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepa	ared Date	Analyzed	Analyst Initials	
Volatile Organics (Con	tinued)									
trans-1,2-Dichloroethene	ND		1.26	4.00	ug/L	08/28/2023	08:00 08/28/2	023 11:49	SRB	EPA 624.1
trans-1,3-Dichloropropene	ND		1.16	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Trichloroethene	ND		0.432	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Vinyl acetate	ND		0.712	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Vinyl chloride	ND		1.15	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Xylenes, Total	ND		1.00	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Total Trihalomethanes	ND		1.11	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
1,3-Dichloropropene, Total	ND		0.738	5.00	ug/L	08/28/2023	08:00 08/28/20	023 11:49	SRB	EPA 624.1
Wet Chemistry			1							
Cyanide, Amenable	3.66		0.946	2.00	ug/L	08/25/2023	12:30 08/25/20	023 14:52	SRB	OIA 1677
Cyanide, Total	3.65 J		3.14	10.0	ug/L	08/25/2023	12:30 08/25/20	23 14:52	SRB	ASTM D7511



Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results (Continued)

Sample: SP 2_Comp Northwest Effluent 23H1064-04 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Pre	pared	Date Ana	alyzed	Analyst Initials	Method
Semivolatile Organics											
Chlorpyrifos (2)	ND	1	.00918	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
Demeton-o (2)	ND		0.0194	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
Demeton-s (2)	ND		0.0163	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
Diazinon (2)	ND	19	0.0133	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
ethyl-Parathion (2)	ND	9	0.0122	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
Malathion (2)	ND	9	0.0122	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
methyl Azinphos (Guthion) (2)	ND	3	0.0153	0.255	ug/L	08/31/2023	08:20	09/15/2023	15:28	RD	EPA 1657
4,4'-DDD	ND).	.003880	0.0254	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
4,4'-DDE	ND	1.	.00155.	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
4,4'-DDT	ND	1.	.005170	0.0254	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Aldrin	ND	1.	.00155.	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Alpha-BHC	ND	١,	00121.	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Beta-BHC	ND	I.	00242.	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Chlordane	ND	(0.0437	0.203	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Delta-BHC	ND	I.	00171.	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Dicofol	ND	(0.01190	.0508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Dieldrin	ND	1.	00184.	00508	ug/L	08/29/2023				SRB	EPA 608.3
Endosulfan I	ND	1.	00121.	00508	ug/L	08/29/2023				SRB	EPA 608.3
Endosulfan II	ND	1.	003410	.0254	ug/L	08/29/2023				SRB	EPA 608.3
Endosulfan Sulfate	ND	1.	004290	.0254	ug/L	08/29/2023				SRB	EPA 608.3
Endrin	ND	C	0.01330	.0254	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Endrin-Aldehyde	ND	1.0	00220.0	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Gamma-BHC	ND	1.0	00121.0	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	SRB	EPA 608.3
Heptachlor	ND	1.0	00220.0	00508	ug/L	08/29/2023				SRB	EPA 608.3
Heptachlor epoxide	ND	1.0	00155.0	00508	ug/L	08/29/2023		A STATE OF THE PARTY OF THE PARTY OF			EPA 608.3
Methoxychlor	ND	1.0	00251.0	00508	ug/L	08/29/2023					EPA 608.3
Mirex	ND).(00155.0	00508	ug/L	08/29/2023	09:07	08/31/2023	12:08	Constitution Con-	EPA 608.3
PCB-1016	ND	0	.0774	0.203	ug/L	08/29/2023	09:07	08/31/2023	12:08		EPA 608.3
PCB-1221	ND	0	.0121	0.203	ug/L	08/29/2023	09:07	08/31/2023	12:08		EPA 608.3
PCB-1232	ND		0.122		ug/L	08/29/2023					EPA 608.3
PCB-1242	ND		0.118	0.203	ug/L	08/29/2023					EPA 608.3
PCB-1248	ND	0	.0948	0.203	ug/L	08/29/2023					EPA 608.3
PCB-1254	ND	0	.0743	0.203	ug/L	08/29/2023	09:07	08/31/2023	12:08		EPA 608.3
PCB-1260	ND		0.164 (0.203	ug/L	08/29/2023		**************************************			EPA 608,3
Toxaphene	ND		0.103	0.203	ug/L	08/29/2023	09:07	08/31/2023	12:08		EPA 608.3
Polychlorinated biphenyls, Total	ND		.0743 (ug/L	08/29/2023					EPA 608.3
1,2,4,5-Tetrachlorobenzene	ND		0.963	5.10	ug/L	08/29/2023					EPA 625.1
1,2,4-Trichlorobenzene	ND		0.510		ug/L	08/29/2023					EPA 625.1
2,4,5-Trichlorophenol	ND		1.66		ug/L	08/29/2023					EPA 625.1
2,4,6-Trichlorophenol	ND		1.18		ug/L	08/29/2023					EPA 625.1



Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 2_Comp (Continued)Northwest Effluent 23H1064-04 (Water)

Analyte	Result	Qual DL	RL	Units	Date Prepa	ired	Date Ana	alyzed	Analyst Initials	Method	
Semivolatile Organics	The second of th		179000		100000000000000000000000000000000000000			2 2000			
2,4-Dichlorophenol	ND	1.04		ug/L	08/29/2023				SRB	EPA 625.1	
2,4-Dimethylphenol	ND	0.720		ug/L	08/29/2023				SRB	EPA 625.1	
2,4-Dinitrophenol	ND	3.17		ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2,4-Dinitrotoluene	ND	1.38		ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2,6-Dinitrotoluene	ND	1.37	5.10	ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2-Chloronaphthalene	ND	0.979	5.10	ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2-Chlorophenol	ND	1.07	5.10	ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2-Methylphenol	ND	1.10		ug/L	08/29/2023	08:31	08/30/2023	18:41	SRB	EPA 625.1	
2-Nitrophenol	ND	0.720	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
3,3'-Dichlorobenzidine	ND	1.50	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
4,6-Dinitro-2-methylphenol	ND	2.31	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
4-Bromophenyl phenyl ether	ND	0.832	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
4-Chloro-3-methylphenol	ND	1.21	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
4-Chlorophenyl phenyl Ether	ND	1.20	5.10	ug/L	08/29/2023 (08:31	08/30/2023	18:41	SRB	EPA 625.1	
4-Methylphenol	ND	1.41	5.10	ug/L	08/29/2023 0	08:31	08/30/2023	18:41	SRB	EPA 625.1	
4-Nitrophenol	ND	0.988	5.10	ug/L	08/29/2023 0	08:31	08/30/2023	18:41	SRB	EPA 625.1	
Acenaphthene	ND	1.07	5.10	ug/L	08/29/2023 0	08:31	08/30/2023	18:41	SRB	EPA 625.1	
Acenaphthylene	ND	0.889	5.10	ug/L	08/29/2023 0					EPA 625.1	
Aniline	ND	1.24	5.10	ug/L	08/29/2023 0)8:31	08/30/2023	18:41		EPA 625.1	
Anthracene	ND	0.873	5.10	ug/L	08/29/2023 0	8:31	08/30/2023	18:41	SRB	EPA 625.1	
Azobenzene	ND	0.997	5.10	ug/L	08/29/2023 0)8:31 (08/30/2023	18:41		EPA 625.1	
Benzidine	ND	1.64	5.10	ug/L	08/29/2023 0	18:31	08/30/2023	18:41	SRB	EPA 625.1	
Benzo(a)pyrene	ND	1.57	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41	SRB	EPA 625.1	
Benzo(b)fluoranthene	ND	1.46	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41	SRB	EPA 625.1	
Benzo(k)Fluoranthene	ND	1.04	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41		EPA 625.1	
Benzo(g,h,i)perylene	ND	1.15	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41		EPA 625.1	
Benzo[a]anthracene	ND	1.15	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41	SRB	EPA 625.1	
Bis(2-chloroethoxy) methane	ND	0.848	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41	SRB	EPA 625.1	
Bis(2-chloroethyl) ether	ND	1.11	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41		EPA 625.1	
Bis(2-chloroisopropyl) ether	ND	0.985	5.10	ug/L	08/29/2023 0					EPA 625.1	
Bis(2-ethylhexyl) phthalate	ND	2.71	5.10	ug/L	08/29/2023 0	8:31 (08/30/2023	18:41		EPA 625.1	
Butyl benzyl phthalate	ND	1.31	5.10	ug/L	08/29/2023 0					EPA 625.1	
Carbazole	ND	1.58	5.10	ug/L	08/29/2023 0					EPA 625.1	
Chrysene	ND	1.32	5.10	ug/L	08/29/2023 0	8:31 0	08/30/2023	18:41		EPA 625.1	
Dibenzo(a,h)anthracene	ND	1.34	5.10	ug/L	08/29/2023 08					EPA 625.1	
Diethyl phthalate	ND	1.30	5.10	ug/L	08/29/2023 08					EPA 625.1	
Dimethyl phthalate	ND	0.930	5.10	ug/L	08/29/2023 08					EPA 625.1	
Di-n-butyl phthalate	ND	1.36	5.10	ug/L	08/29/2023 08					EPA 625.1	
Di-n-octyl phthalate	ND	2.11	5.10		08/29/2023 08					EPA 625.1	
Fluoranthene	ND	1.30	5.10	ug/L	08/29/2023 08					EPA 625.1	
										1000 (100 Line 100 Li	





Project: NW Full Scan

Project Number: 10495-076
Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results

(Continued)

Sample: SP 2_Comp (Continued)Northwest Effluent 23H1064-04 (Water)

Analyto	Result Qua	al DL	DI	Units	Date Prepared	d Date Analyz	Analyst zed Initials	Method
Analyte	Kesuit Qua	ii DL	KL	Units	Date Fleparet	2 Date Analys	LCG AIRCIGIS	Ticalou
emivolatile Organics	(Continued)				*			
Fluorene	ND	1.05	5.10	ug/L	08/29/2023 08:	31 08/30/2023 18	8:41 SRB	EPA 625.1
Hexachlorobenzene	ND	0.966	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Hexachlorobutadiene	ND	0.531	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Hexachlorocyclopentadiene	ND	0.755	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Hexachloroethane	ND	0.761	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Indeno(1,2,3-cd)pyrene	ND	1.75	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Isophorone	ND	0.495	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Naphthalene	ND	0.653	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
n-Decane	ND	0.531	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
Nitrobenzene	ND	0.774	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
N-Nitosodi-n-butylamine	ND	0.982	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
N-Nitrosodiethylamine	ND	1.08	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
N-Nitrosodimethylamine	ND	0.773	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	8:41 SRB	EPA 625.1
N-Nitrosodi-n-propylamine	ND	1.53	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	3:41 SRB	EPA 625.1
N-Nitrosodiphenylamine	ND	0.869	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	3:41 SRB	EPA 625.1
n-Octadecane	ND	0.905	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	3:41 SRB	EPA 625.1
Pentachlorobenzene	ND	0.656	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	3:41 SRB	EPA 625.1
Pentachlorophenol	ND	1.77	5.10	ug/L	08/29/2023 08:3	31 08/30/2023 18	3:41 SRB	EPA 625.1
Phenanthrene	ND	0.947	5.10	ug/L	08/29/2023 08:3	1 08/30/2023 18	3:41 SRB	EPA 625.1
Phenol	ND	1.08	5.10	ug/L	08/29/2023 08:3	1 08/30/2023 18	3:41 SRB	EPA 625.1
Pyrene	ND	1.08	5.10	ug/L	08/29/2023 08:3	1 08/30/2023 18	3:41 SRB	EPA 625.1
Pyridine	ND	0.997	5.10	ug/L	08/29/2023 08:3	1 08/30/2023 18	3:41 SRB	EPA 625.1
3-Methylphenol	ND	5.69	10.2	ug/L	08/29/2023 08:3	1 08/30/2023 18	3:41 SRB	EPA 625.1





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Sample Results (Continued)

Sample: Field Blank Field Blank Northwest

23H1064-05 (Water)

Analyte	Result	Qual	DL I	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals Mercury	ND		0.0928 0.5	00	ng/L	08/28/2023 11:03	08/31/2023 13:57	KEN	EPA 1631E



Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control

Total Metals

Analyte	Result	Qual	RL	Units	Spike Level		ırce sult	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H376 - EPA 245.1											
Blank (B23H376-BLK1)			Pr	epared:	08/28/23 08	3:00 A	Analyzed	: 08/30/	23 10:46		
Mercury	ND		0.100	ug/L							
Blank (B23H376-BLK2)			Pr	epared:	08/28/23 08	3:00 A	Analyzed	: 08/30/	23 12:04		
Mercury	ND		0.100	ug/L	o 10						
LCS (B23H376-BS1)			Pr	epared:	08/28/23 08	3:00 A	Analyzed:	: 08/30/	23 10:41		
Mercury	5.39		0.100	ug/L	5.33		53	101	90-110		
LCS (B23H376-BS2)			Pr	epared:	08/28/23 08	3:00 A	nalyzed:	: 08/30/	23 12:01		
Mercury	5.38		0.100	ug/L	5.33			101	90-110		
Duplicate (B23H376-DUP1)	Source:	23H0188-0	1 Pr	epared:	08/28/23 08	:00 A	nalyzed:	08/30/	23 10:50		
Mercury	ND		0.100	ug/L			260				20
Duplicate (B23H376-DUP2)	Source:	23H1069-0	1 Pr	epared:	08/28/23 08	:00 A	nalyzed:	08/30/	23 11:32		
Mercury	ND		0.100	ug/L			D			·	20
Matrix Spike (B23H376-MS1)	Source:	23H0188-0	1 Pr	epared:	08/28/23 08	:00 A	nalyzed:	08/30/	23 10:52		
Mercury	5.32	The second secon	0.100	ug/L	5.33		260	99.2	70-130		
Matrix Spike (B23H376-MS2)	Source:	23H1069-0	1 Pro	epared:	08/28/23 08	:00 A	nalyzed:	08/30/	23 10:56		
Mercury	5.26		0.100	ug/L	5.33	N	2-1-0000 11 100 000 0000	98.7	70-130		
Matrix Spike Dup (B23H376-MSD1)	Source:	23H0188-0	1 Pro	epared:	08/28/23 08	:00 A	nalvzed:	08/30/	23 11:34		
Mercury	5.49		0.100	ug/L	5.33	0.02		102	70-130	3.12	20
Matrix Spike Dup (B23H376-MSD2)	Source:	23H1069-0	1 Pre	epared:	08/28/23 08	:00 A	nalvzed:	08/30/2	23 11:38		
Mercury	5.51		0.100	ug/L	5.33	NI		103	70-130	4.58	20



Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported: 11/09/2023 07:32

Quality Control (Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Unit	Spik Leve	•	ource esult	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H388 - EPA 1631	E										
Blank (B23H388-BLK1)			Р	repared:	08/28/23	11:03	Analyzed	08/29/	23 14:05		
Mercury	ND	¥	0.500	ng/L				N NONE CONCESSES	120 AC		
Blank (B23H388-BLK2)			P	repared:	08/28/23	11:03	Analyzed:	08/29/	23 15:34		
Mercury	ND		0.500	ng/L							
Blank (B23H388-BLK3)			· Pi	repared:	08/28/23	11:03	Analyzed:	08/29/	23 15:54		
Mercury	ND		0.500	ng/L							
Blank (B23H388-BLK4)			Pr	repared:	08/28/23	11:03	Analyzed:	08/29/	23 15:44		
Mercury	ND		0.500	ng/L							
LCS (B23H388-BS1)			Pr	repared:	08/28/23	11:03	Analyzed:	08/29/	23 13:55		
Mercury	5.09	(0.500	ng/L	5.00			102	77-123		
LCS (B23H388-BS2)			Pr	repared:	08/28/23	11:03	Analyzed:	08/29/	23 15:24		
Mercury	4.95	(0.500	ng/L	5.00		70	99.0	77-123		
LCS (B23H388-BS3)			Pr	epared:	08/28/23	11:03	Analyzed:	08/29/2	23 16:04		
Mercury	4.91	(.500	ng/L	5.00			98.3	77-123		
Matrix Spike (B23H388-MS1)	Source:	23H1064-03	Pr	epared:	08/28/23	11:03	Analyzed:	08/29/2	23 14:35		
Mercury	6.03	(.500	ng/L	5.00		1.05	99.6	71-125		
Matrix Spike Dup (B23H388-MSD1)	Source:	23H1064-03	Pr	epared:	08/28/23	11:03	Analyzed:	08/29/2	23 14:45		a and in control of the control of t
Mercury	5.82		.500	ng/L	5.00		1.05	95.5	71-125	3.50	24

Mercury ND 0.500 ng/L





Project: NW Full Scan

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Project Manager: Regulatory Compliance

Reported:

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Quality Control (Continued)

Total Metals (Continued)

Analyte	Result	Qual	RI	_ Unit		ike vel	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H424 - EPA 163	1E (Cont	inued)									
Blank (B23H424-BLK2)				Prepared	08/30/	23 09:2	1 Analyzed	d: 08/31,	/23 13:08		
Mercury	0.366 J		0.500	ng/L	F		Education in the second				A5
Blank (B23H424-BLK3)				Prepared	08/30/2	23 09:2	1 Analyzed	1: 08/31/	/23 14:27		
Mercury	ND		0.500	ng/L							
Blank (B23H424-BLK4)			-	Prepared	08/28/2	23 11:0	3 Analyzed	d: 08/31/	/23 14:07		
Mercury	ND		0.500) ng/L							
Blank (B23H424-BLK5)			ı	repared:	08/28/2	23 11:0	3 Analyzed	i: 08/31/	23 14:17		
Mercury	ND		0.500	ng/L			***				
LCS (B23H424-BS1)			F	Prepared:	08/30/2	23 09:2	1 Analyzed	l: 08/31/	23 11:38		
Mercury	4.99		0.500	ng/L	5.	00	\$10000	99.8	77-123		
LCS (B23H424-BS2)			F	repared:	08/30/2	23 09:2	1 Analyzed	l: 08/31/	23 12:58		
Mercury	5.47		0.500	200	5.0			109	77-123		
LCS (B23H424-BS3)			F	repared:	08/30/2	23 09:2	1 Analyzed	: 08/31/	23 14:37		
Mercury	4.84		0.500		5.0			96.8	77-123		
Matrix Spike (B23H424-MS1)	Source:	23H1064	-03R F	repared:	08/30/2	23 09:2	1 Analyzed	: 08/31/	23 12:18		
Mercury	5.76		0.500		5.0		1.01	95.0	71-125		
Matrix Spike Dup (B23H424-MSD)	1) Source:	23H1064	-03R P	repared:	08/30/2	23 09:2	1 Analyzed	: 08/31/	23 12:28		
Mercury	5.81		0.500		5.0		1.01	96.0	71-125	0.783	24
D-1-1- D00707E ED4 000	-										
<i>Batch: B23I075 - EPA 200.)</i> Blank (B23I075-BLK1)				roporodi	00/07/2	2 00.12	2 Analyzed	. 00/00/	22 00.26		
Aluminum	ND		100	ELECTION OF THE STATE OF THE ST	09/0//2	.5 00.12	Analyzeu	. 09/00/.	23 09.20		
Antimony	ND		100	ug/L							
Arsenic	ND		100	ug/L							
Barium	ND		100	ug/L							
Beryllium	ND		20.0	ug/L							
Cadmium	ND		20.0	ug/L							
Chromium	ND		100	ug/L							
Copper	ND		100	ug/L							
Lead	ND		100	ug/L							
Nickel	ND		100	ug/L							
Selenium	ND		100	ug/L							
Silver	ND		20.0	ug/L							
Thallium	ND		200	ug/L							
Vanadium	ND		100	ug/L							
ENGINEER CONTRACTOR OF THE CON	ND		0.0000000000000000000000000000000000000								





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

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Quality Control (Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23I075 - EPA 20	00.7 (Contil	nued)								
LCS (B23I075-BS1)		,	Pre	epared: 09	9/07/23 08	:12 Analyze	ed: 09/08/	23 09:23		
Aluminum	1880		100	ug/L	2000	· ·	94.0	85-115		
Antimony	1870		100	ug/L	2000		93.6	85-115		
Arsenic	1920		100	ug/L	2000		96.1	85-115		
Barium	1890		100	ug/L	2000		94.4	85-115		
Beryllium	383		20.0	ug/L	400		95.8	85-115		
Cadmium	365		20.0	ug/L	400		91.2	85-115		
Chromium	1910		100	ug/L	2000		95.7	85-115		
Copper	1910		100	ug/L	2000		95.5	85-115		
Lead	1870		100	ug/L	2000		93.7	85-115		
Nickel	1890		100	ug/L	2000		94.5	85-115		
Selenium	1850		100	ug/L	2000		92.7	85-115		
Silver	382		20.0	ug/L	400		95.4	85-115		
Thallium	1880		200	ug/L	2000		93.9	85-115		
Vanadium	1920		100	ug/L	2000		96.2	85-115		
Zinc	1850		100	ug/L	2000		92.4	85-115		
Duplicate (B23I075-DUP1)	Source	23H078	5-02 Pre	pared: 09	0/07/23 08	:12 Analyze	ed: 09/08/2	23 09:33		
Aluminum	1330		100	ug/L	######################################	1330			0.475	20
Antimony	ND		100	ug/L		ND				20
Arsenic	ND		100	ug/L		ND				20
Barium	90.9 J		100	ug/L		91.5			0.703	20
Beryllium	ND		20.0	ug/L		ND				20
Cadmium	ND		20.0	ug/L		ND				20
Chromium	8.74 J		100	ug/L		7.85			10.7	20
Copper	16.2 J		100	ug/L		15.7			2.66	20
Lead	ND		100	ug/L		ND				20
Nickel	ND		100	ug/L		ND				20
Selenium	ND		100	ug/L		ND				20
Silver	ND		20.0	ug/L		ND				20
Thallium	ND		200	ug/L		ND				20
Vanadium	ND		100	ug/L		ND				20
Zinc	70.3 J		100	ug/L		71.1			1.09	20





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Total Metals (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B231075 - EPA 200.	7 (Contin	nued)								
Matrix Spike (B23I075-MS1)	Source	23H0785-0	2 Pr	epared: 0	9/07/23 08	:12 Analyz	ed: 09/08/	23 09:36		
Aluminum	3610		100	ug/L	2000	1330	114	70-130		
Antimony	1900		100	ug/L	2000	ND	95.1	70-130		
Arsenic	1970		100	ug/L	2000	ND	98.5	70-130		
Barium	1960		100	ug/L	2000	91.5	93.5	70-130		
Beryllium	382		20.0	ug/L	400	ND	95.6	70-130		
Cadmium	371		20.0	ug/L	400	ND	92.9	70-130		
Chromium	1900		100	ug/L	2000	7.85	94.4	70-130		
Copper	1930		100	ug/L	2000	15.7	95.8	70-130		
Lead	1880		100	ug/L	2000	ND	93.9	70-130		
Nickel	1870		100	ug/L	2000	ND	93.3	70-130		
Selenium	1890		100	ug/L	2000	ND	94.6	70-130		
Silver	382		20.0	ug/L	400	ND	95.5	70-130		
Thallium	1810		200	ug/L	2000	ND	90.7	70-130		
Vanadium	1960		100	ug/L	2000	ND	97.8	70-130		
Zinc	1950		100	ug/L	2000	71.1	93.9	70-130		
Matrix Spike Dup (B23I075-MSD:	L) Source:	23H0785-02	2 Pre	epared: 09	9/07/23 08	12 Analyze	ed: 09/08/	23 09:49		
Aluminum	3620		100	ug/L	2000	1330	114	70-130	0.178	20
Antimony	1910		100	ug/L	2000	ND	95.3	70-130	0.232	20
Arsenic	1950		100	ug/L	2000	ND	97.7	70-130	0.841	20
Barium	1970		100	ug/L	2000	91.5	93.7	70-130	0.221	20
Beryllium	383		20.0	ug/L	400	ND	95.8	70-130	0.140	20
Cadmium	373		20.0	ug/L	400	ND	93.2	70-130	0.382	20
Chromium	1900		100	ug/L	2000	7.85	94.6	70-130	0.216	20
Copper	1930		100	ug/L	2000	15.7	95.9	70-130	0.170	20
Lead	1860		100	ug/L	2000	ND	92.8	70-130	1.20	20
Nickel	1870		100	ug/L	2000	ND	93.6	70-130	0.346	20
Selenium	1930		100	ug/L	2000	ND	96.3	70-130	1.75	20
Silver	381		20.0	ug/L	400	ND	95.4	70-130	0.0938	20
Thallium	1850		200	ug/L	2000	ND	92.5	70-130	1.93	20
Vanadium	1960		100	ug/L	2000	ND	97.8	70-130	0.0332	20
Zinc	1950		100	ug/L	2000	71.1	94.2	70-130	0.224	20





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Semivolatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA 6.	25.1_SPE									
Blank (B23H385-BLK1)			Pre	epared: 0	3/29/23 08	:31 Analyz	ed: 08/30/	23 17:44		
1,2,4,5-Tetrachlorobenzene	ND		5.10	ug/L		= 2	950 50			
1,2,4-Trichlorobenzene	ND		5.10	ug/L						
2,4,5-Trichlorophenol	ND		5.10	ug/L						
2,4,6-Trichlorophenol	ND		5.10	ug/L						
2,4-Dichlorophenol	ND		5.10	ug/L						
2,4-Dimethylphenol	ND		5.10	ug/L						
2,4-Dinitrophenol	ND		5.10	ug/L						
2,4-Dinitrotoluene	ND		5.10	ug/L						
2,6-Dinitrotoluene	ND		5.10	ug/L						
2-Chloronaphthalene	ND		5.10	ug/L						
2-Chlorophenol	ND		5.10	ug/L						
2-Methylphenol	ND		5.10	ug/L						
2-Nitrophenol	ND		5.10	ug/L						
3,3'-Dichlorobenzidine	ND		5.10	ug/L						
4,6-Dinitro-2-methylphenol	ND		5.10	ug/L						
4-Bromophenyl phenyl ether	ND		5.10	ug/L						
4-Chloro-3-methylphenol	ND		5.10	ug/L						
4-Chlorophenyl phenyl Ether	ND		5.10	ug/L						
4-Methylphenol	ND		5.10	ug/L						
4-Nitrophenol	ND		5.10	ug/L						
Acenaphthene	ND		5.10	ug/L						
Acenaphthylene	ND		5.10	ug/L						
Aniline	ND		5.10	ug/L						
Anthracene	ND		5.10	ug/L						
Azobenzene	ND		5.10	ug/L						
Benzidine	ND		5.10	ug/L						
Benzo(a)pyrene	ND		5.10	ug/L						
Benzo(b)fluoranthene	ND		5.10	ug/L						
Benzo(k)Fluoranthene	ND		5.10	ug/L						
Benzo(g,h,i)perylene	ND		5.10	ug/L						
Benzo[a]anthracene	ND		5.10	ug/L						
Bis(2-chloroethoxy) methane	ND		5.10	ug/L						
Bis(2-chloroethyl) ether	ND		5.10	ug/L						
Bis(2-chloroisopropyl) ether	ND		5.10	ug/L						
Bis(2-ethylhexyl) phthalate	ND		5.10	ug/L						
Butyl benzyl phthalate	ND		5.10	ug/L ug/L						
Carbazole	ND		5.10	ug/L						
Chrysene	ND		5.10	ug/L						
Dibenzo(a,h)anthracene	ND		5.10	ug/L						
Diethyl phthalate	ND		5.10	ug/L ug/L						
Dimethyl phthalate	ND		5.10	ug/L						
Di-n-butyl phthalate	ND ND		5.10	ug/L						
Di-n-octyl phthalate	ND ND		5.10	ug/L ug/L						
Fluoranthene	ND ND		5.10	ug/L ug/L						
Fluorene	ND		5.10	ug/L ug/L						
Hexachlorobenzene	ND ND		5.10	ug/L ug/L						
Hexachlorobutadiene	ND		5.10	A 100 - 100						
i iexaci ilorobutatierie	ND		2.10	ug/L						





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA	625.1_SPE (Continue	d)							
Blank (B23H385-BLK1)			Pr	epared: 0	8/29/23 08	:31 Analyz	ed: 08/30/	23 17:44		
Hexachlorocyclopentadiene	ND		5.10	ug/L						
Hexachloroethane	ND		5.10	ug/L						
Indeno(1,2,3-cd)pyrene	ND		5.10	ug/L						
Isophorone	ND		5.10	ug/L						
Naphthalene	ND		5.10	ug/L						
n-Decane	ND		5.10	ug/L						
Nitrobenzene	ND		5.10	ug/L						
N-Nitosodi-n-butylamine	ND		5.10	ug/L						
N-Nitrosodiethylamine	ND		5.10	ug/L						
N-Nitrosodimethylamine	ND		5.10	ug/L						
N-Nitrosodi-n-propylamine	ND		5.10	ug/L						
N-Nitrosodiphenylamine	ND		5.10	ug/L						
n-Octadecane	ND		5.10	ug/L						
Pentachlorobenzene	ND		5.10	ug/L						
Pentachlorophenol	ND		5.10	ug/L						
Phenanthrene	ND		5.10	ug/L						
Phenol	ND		5.10	ug/L						
Pyrene	ND		5.10	ug/L						
Pyridine	ND		5.10	ug/L						
3-Methylphenol	ND		10.2	ug/L						
LCS (B23H385-BS1)			Pre	pared: 0	8/29/23 08:	:31 Analyze	ed: 08/30/2	23 18:12		
1,2,4-Trichlorobenzene	24.8		5.08	ug/L	40.6		61.1	44-142		
2,4,5-Trichlorophenol	33.4		5.08	ug/L	40.6		82.4	1-140		
2,4,6-Trichlorophenol	34.8		5.08	ug/L	40.6		85.7	37-144		
2,4-Dichlorophenol	32.3		5.08	ug/L	40.6		79.6	39-135		
2,4-Dimethylphenol	33.4		5.08	ug/L	40.6		82.3	32-120		
2,4-Dinitrophenol	39.3		5.08	ug/L	40.6		96.9	1-191		
2,4-Dinitrotoluene	38.4		5.08	ug/L	40.6		94.6	39-139		
2,6-Dinitrotoluene	36.9		5.08	ug/L	40.6		90.8	50-158		
2-Chloronaphthalene	29.5		5.08	ug/L	40.6		72.6	20-120		
2-Chlorophenol	32.5		5.08	ug/L	40.6		80.0	23-134		
2-Methylphenol	32.4		5.08	ug/L	40.6		79.8	1-140		
2-Nitrophenol	27.3		5.08	ug/L	40.6		67.2	29-182		
3,3'-Dichlorobenzidine	60.4		5.08	ug/L	102		59.5	1-262		
4,6-Dinitro-2-methylphenol	39.6		5.08	ug/L	40.6		97.4	1-181		
4-Bromophenyl phenyl ether	31.4		5.08	ug/L	40.6		77.2	53-127		
4-Chloro-3-methylphenol	37.7		5.08	ug/L	40.6		93.0	22-147		
4-Chlorophenyl phenyl Ether	31.9		5.08	ug/L	40.6		78.6	25-158		
4-Methylphenol	12.5		5.08	ug/L	20.3		61.7	1-140		
4-Nitrophenol	36.7		5.08	ug/L	40.6		90.3	1-132		
Acenaphthene	32.6		5.08	ug/L	40.6		80.2	47-145		
Acenaphthylene	29.4		5.08	ug/L	40.6		72.4	33-145		
Aniline	27.6		5.08	ug/L	40.6		67.9	1-140		
Anthracene	34.0		5.08	ug/L	40.6		83.8	27-133		
Azobenzene	36.3		5.08	ug/L	40.6		89.3	1-140		
Benzidine	7.53		5.08	ug/L	102		7.42	1-140		
war midli la	7.55		5.50	49/L	102		1.5	10		





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA 62	5.1_SPE (Continue								
LCS (B23H385-BS1)			Pre	epared: 08	3/29/23 08	:31 Analyze	d: 08/30/	23 18:12		
Benzo(a)pyrene	25.2		5.08	ug/L	40.6		61.9	17-163		
Benzo(b)fluoranthene	28.7		5.08	ug/L	40.6		70.6	24-159		
Benzo(k)Fluoranthene	28.4		5.08	ug/L	40.6		70.0	11-162		
Benzo(g,h,i)perylene	16.5		5.08	ug/L	40.6		40.6	1-219		
Benzo[a]anthracene	31.9		5.08	ug/L	40.6		78.5	33-143		
Bis(2-chloroethoxy) methane	31.8		5.08	ug/L	40.6		78.2	33-184		
Bis(2-chloroethyl) ether	33.8		5.08	ug/L	40.6		83.3	12-158		
Bis(2-chloroisopropyl) ether	35.1		5.08	ug/L	40.6		86.4	36-166		
Bis(2-ethylhexyl) phthalate	41.3		5.08	ug/L	40.6		102	8-158		
Butyl benzyl phthalate	39.4		5.08	ug/L	40.6		97.1	1-152		
Carbazole	35.4		5.08	ug/L	40.6		87.2	1-140		
Chrysene	34.5		5.08	ug/L	40.6		84.9	17-168		
Dibenzo(a,h)anthracene	17.4		5.08	ug/L	40.6		42.8	1-227		
Diethyl phthalate	38.3		5.08	ug/L	40.6		94.3	1-120		
Dimethyl phthalate	36.2		5.08	ug/L	40.6		89.1	1-120		
Di-n-butyl phthalate	37.8		5.08	ug/L	40.6		93.2	1-120		
Di-n-octyl phthalate	37.7		5.08	ug/L	40.6		92.8	4-146		
Fluoranthene	31.9		5.08	ug/L	40.6		78.6	26-137		
Fluorene	32.2		5.08	ug/L	40.6		79.4	59-121		
Hexachlorobenzene	29.0		5.08	ug/L	40.6		71.5	1-152		
Hexachlorobutadiene	21.2		5.08	ug/L	40.6		52.2	24-120		
Hexachlorocyclopentadiene	20.4		5.08	ug/L	40.6		50.3	1-140		
Hexachloroethane	19.0		5.08	ug/L	40.6		46.9	40-120		
Indeno(1,2,3-cd)pyrene	18.2		5.08	ug/L ug/L	40.6		44.9	1-171		
Isophorone	36.2		5.08	ug/L	40.6		89.1	21-196		
Naphthalene	31.7		5.08	ug/L ug/L	40.6		78.0	21-133		
n-Decane	4.74 J		5.08	ug/L	40.6		11.7	1-140		
Nitrobenzene	32.3		5.08		40.6		79.7	35-140		
N-Nitosodi-n-butylamine	32.3		5.08	ug/L	40.6		79.7 79.2	1-140		
N-Nitrosodiethylamine	35.6		5.08	ug/L	40.6		87.7	1-140		
•				ug/L				1-140		
N-Nitrosodimethylamine	15.8		5.08	ug/L	40.6		38.9			
N-Nitrosodi-n-propylamine	35.5		5.08	ug/L	40.6		87.5	1-230		
N-Nitrosodiphenylamine	36.0		5.08	ug/L	40.6		88.6	1-140		
n-Octadecane	28.1		5.08	ug/L	40.6		69.1	1-140		
Pentachlorobenzene	29.8		5.08	ug/L	40.6		73.4	1-140		
Pentachlorophenol	35.8		5.08	ug/L	40.6		88.1	14-176		
Phenanthrene	35.3		5.08	ug/L	40.6		86.8	54-120		
Phenol	23.9		5.08	ug/L	40.6		58.8	5-120		
Pyrene	35.9		5.08	ug/L	40.6		88.5	52-120		
Pyridine	10.6		5.08	ug/L	40.6		26.1	1-140		
3-Methylphenol	12.6		10.2	ug/L	20.3		61.9	1-140		





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA 625	5.1_SPE (Continue								
Matrix Spike (B23H385-MS1)	Source	: 23H1064	-04 Pr	epared: 08	3/29/23 08	3:31 Analyz	ed: 08/30/	23 19:09		
1,2,4-Trichlorobenzene	62.5		10.0	ug/L	80.0	ND .	78.2	44-142		
2,4,5-Trichlorophenol	79.1		10.0	ug/L	80.0	ND	98.8	1-140		
2,4,6-Trichlorophenol	77.1		10.0	ug/L	80.0	ND	96.4	37-144		
2,4-Dichlorophenol	70.8		10.0	ug/L	80.0	ND	88.5	39-135		
2,4-Dimethylphenol	69.2		10.0	ug/L	80.0	ND	86.5	32-120		
2,4-Dinitrophenol	106		10.0	ug/L	80.0	ND	133	1-191		
2,4-Dinitrotoluene	84.5		10.0	ug/L	80.0	ND	106	39-139		
2,6-Dinitrotoluene	80.4		10.0	ug/L	80.0	ND	100	50-158		
2-Chloronaphthalene	65.2		10.0	ug/L	80.0	ND	81.5	20-120		
2-Chlorophenol	69.8		10.0	ug/L	80.0	ND	87.2	23-134		
2-Methylphenol	70.0		10.0	ug/L	80.0	ND	87.5	1-140		
2-Nitrophenol	68.9		10.0	ug/L	80.0	ND	86.1	29-182		
3,3'-Dichlorobenzidine	ND N	1S1	10.0	ug/L	200	ND	-,-,-	1-262		
4,6-Dinitro-2-methylphenol	92.0		10.0	ug/L	80.0	ND	115	1-181		
4-Bromophenyl phenyl ether	70.0		10.0	ug/L	80.0	ND	87.5	53-127		
4-Chloro-3-methylphenol	89.5		10.0	ug/L	80.0	ND	112	22-147		
4-Chlorophenyl phenyl Ether	76.3		10.0	ug/L	80.0	ND	95.3	25-158		
4-Methylphenol	36.1		10.0	ug/L	40.0	ND	90.3	1-140		
4-Nitrophenol	80.5		10.0	ug/L	80.0	ND	101	1-132		
Acenaphthene	72.8		10.0	ug/L	80.0	ND	90.9	47-145		
Acenaphthylene	63.0		10.0	ug/L	80.0	ND	78.8	33-145		
Aniline	62.8		10.0	ug/L	80.0	ND	78.5	1-140		
Anthracene	76.3		10.0	ug/L	80.0	ND	95.3	27-133		
Azobenzene	74.1		10.0	ug/L	80.0	ND	92.6	1-140		
Benzidine	ND M	S1	10.0	ug/L	200	ND	32.0	1-140		
Benzo(a)pyrene	65.6	J1	10.0	ug/L	80.0	ND	82.0	17-163		
Benzo(b)fluoranthene	71.8		10.0	ug/L	80.0	ND	89.7	24-159		
Benzo(k)Fluoranthene	70.9		10.0	ug/L	80.0	ND	88.6	11-162		
Benzo(g,h,i)perylene	52.9		10.0	ug/L	80.0	ND	66.1	1-219		
Benzo[a]anthracene	72.6		10.0	ug/L	80.0	ND	90.7	33-143		
Bis(2-chloroethoxy) methane	66.5		10.0	ug/L ug/L	80.0	ND	83.2	33-143		
Bis(2-chloroethyl) ether	78.3		10.0	ug/L ug/L	80.0	ND	97.8	12-158		
Bis(2-chloroisopropyl) ether	78.3		10.0	ug/L ug/L	80.0	ND	97.8	36-166		
Bis(2-ethylhexyl) phthalate	96.2		10.0		80.0	ND	120	8-158		
- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	86.0		10.0	ug/L ug/L	80.0	ND	108	1-152		
Butyl benzyl phthalate Carbazole	75.0		10.0		80.0	ND	93.7	1-132		
				ug/L						
Chrysene	78.9		10.0	ug/L	80.0	ND	98.6	17-168		
Dibenzo(a,h)anthracene	54.4		10.0	ug/L	80.0	ND	67.9	1-227		
Diethyl phthalate	86.3		10.0	ug/L	80.0	ND	108	1-120		
Dimethyl phthalate	77.4		10.0	ug/L	80.0	ND	96.8	1-120		
Di-n-butyl phthalate	83.3		10.0	ug/L	80.0	ND	104	1-120		
Di-n-octyl phthalate	98.1		10.0	ug/L	0.08	ND	123	4-146		
Fluoranthene	75.4		10.0	ug/L	80.0	ND	94.3	26-137		
Fluorene	74.0		10.0	ug/L	80.0	ND	92.5	59-121		
Hexachlorobenzene	68.3		10.0	ug/L	80.0	ND	85.4	1-152		
Hexachlorobutadiene	54.6		10.0	ug/L	80.0	ND	68.3	24-120		
Hexachlorocyclopentadiene	57.2		10.0	ug/L	80.0	ND	71.5	1-140		





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA 625.	1_SPE (Continue	d)		=					
Matrix Spike (B23H385-MS1)	Source	: 23H1064-	04 Pr	epared: 0	8/29/23 08	:31 Analyz	ed: 08/30/	23 19:09		
Hexachloroethane	50.6		10.0	ug/L	80.0	ND	63.3	40-120		
Indeno(1,2,3-cd)pyrene	58.6		10.0	ug/L	80.0	ND	73.3	1-171		
Isophorone	80.1		10.0	ug/L	80.0	ND	100	21-196		
Naphthalene	69.6		10.0	ug/L	80.0	ND	87.0	21-133		
n-Decane	19.6		10.0	ug/L	80.0	ND	24.5	1-140		
Nitrobenzene	71.5		10.0	ug/L	80.0	ND	89.4	35-180		
N-Nitosodi-n-butylamine	92.6		10.0	ug/L	80.0	ND	116	1-140		
N-Nitrosodiethylamine	75.3		10.0	ug/L	80.0	ND	94.1	1-140		
N-Nitrosodimethylamine	27.8		10.0	ug/L	80.0	ND	34.7	1-140		
N-Nitrosodi-n-propylamine	78.1		10.0	ug/L	80.0	ND	97.7	1-230		
N-Nitrosodiphenylamine	75.6		10.0	ug/L	80.0	ND	94.5	1-140		
n-Octadecane	73.3		10.0	ug/L	80.0	ND	91.7	1-140		
Pentachlorobenzene	77.3		10.0	ug/L	80.0	ND	96.6	1-140		
Pentachlorophenol	91.2		10.0	ug/L	80.0	ND	114	14-176		
Phenanthrene	76.1		10.0	ug/L	80.0	ND	95.1	54-120		
Phenol	48.4		10.0	ug/L	80.0	ND	60.5	5-120		
Pyrene	80.9		10.0	ug/L	80.0	ND	101	52-120		
Pyridine	ND M	S1	10.0	ug/L	80.0	ND	-0-	1-140		
3-Methylphenol	27.7		20.0	ug/L	40.0	ND	69.1	1-140		
2,4,5-Trichlorophenol	81.7		10.0	ug/L	80.0	ND	102	1-140	3.28	50
1,2,4-Trichlorobenzene	62.5		10.0	ug/L	80.0	ND	78.1	44-142	0.106	50
2,4,6-Trichlorophenol	79.1		10.0	ug/L	80.0	ND	98.8	37-144	2.47	58
2,4-Dichlorophenol	72.0		10.0	ug/L	80.0	ND	90.1	39-135	1.70	50
2,4-Dimethylphenol	65.7		10.0	ug/L	80.0	ND	82.1	32-120	5.26	58
2,4-Dinitrophenol	101		10.0	ug/L	80.0	ND	126	1-191	4.88	132
2,4-Dinitrotoluene	85.5		10.0	ug/L	80.0	ND	107	39-139	1.21	42
2,6-Dinitrotoluene	80.9		10.0	ug/L	80.0	ND	101	50-158	0.638	48
2-Chloronaphthalene	69.0		10.0	ug/L	80.0	ND	86.2	20-120	5.69	24
2-Chlorophenol	69.7		10.0	ug/L	80.0	ND	87.1	23-134	0.113	61
2-Methylphenol	73.6		10.0	ug/L	80.0	ND	92.0	1-140	4.96	50
2-Nitrophenol	66.0		10.0	ug/L	80.0	ND	82.5	29-182	4.22	55
3,3'-Dichlorobenzidine	ND MS	51	10.0	ug/L	200	ND		1-262		50
4,6-Dinitro-2-methylphenol	98.8		10.0	ug/L	80.0	ND	123	1-181	7.06	203
4-Bromophenyl phenyl ether	74.3		10.0	ug/L	80.0	ND	92.9	53-127	5.96	50
4-Chloro-3-methylphenol	85.6		10.0	ug/L	80.0	ND	107	22-147	4.48	73
4-Chlorophenyl phenyl Ether	77.4		10.0	ug/L	80.0	ND	96.7	25-158	1.45	61
4-Methylphenol	37.6		10.0	ug/L	40.0	ND	94.0	1-140	4.00	50
4-Nitrophenol	83.8		10.0	ug/L	80.0	ND	105	1-132	3.96	131
Acenaphthene	77.2		10.0	ug/L	80.0	ND	96.4	47-145	5.86	48
							84.5	33-145	7.03	
Acenaphthylene	67.6		10.0	ua/L	80.0	IND	07.3			/4
Acenaphthylene Aniline	67.6 66.0		10.0 10.0	ug/L ug/L	80.0 80.0	ND ND				74 50
Aniline	66.0		10.0	ug/L	80.0	ND	82.5	1-140	5.04	50
Aniline Anthracene	66.0 79.8		10.0 10.0	ug/L ug/L	80.0 80.0	ND ND	82.5 99.7	1-140 27-133	5.04 4.49	50 50
Aniline	66.0	51	10.0	ug/L	80.0	ND	82.5	1-140	5.04	50





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H385 - EPA 62										
Matrix Spike Dup (B23H385-M	SD1) Source	: 23H1064	1-04 Pr	epared: 0	8/29/23 08	3:31 Analyz	ed: 08/30/	23 19:37		
Benzo(b)fluoranthene	73.6		10.0	ug/L	80.0	ND	92.0	24-159	2.55	71
Benzo(k)Fluoranthene	72.4		10.0	ug/L	80.0	ND	90.5	11-162	2.10	63
Benzo(g,h,i)perylene	54.5		10.0	ug/L	80.0	ND	68.1	1-219	2.95	97
Benzo[a]anthracene	79.5		10.0	ug/L	80.0	ND	99.3	33-143	9.06	53
Bis(2-chloroethoxy) methane	64.6		10.0	ug/L	80.0	ND	80.7	33-184	2.97	54
Bis(2-chloroethyl) ether	79.5		10.0	ug/L	80.0	ND	99.4	12-158	1.59	50
Bis(2-chloroisopropyl) ether	80.9		10.0	ug/L	80.0	ND	101	36-166	3.25	76
Bis(2-ethylhexyl) phthalate	106		10.0	ug/L	80.0	ND	132	8-158	9.62	82
Butyl benzyl phthalate	95.1		10.0	ug/L	80.0	ND	119	1-152	10.0	60
Carbazole	77.6		10.0	ug/L	80.0	ND	97.0	1-140	3.51	50
Chrysene	86.1		10.0	ug/L	80.0	ND	108	17-168	8.67	87
Dibenzo(a,h)anthracene	56.6		10.0	ug/L	80.0	ND	70.7	1-227	4.00	126
Diethyl phthalate	89.2		10.0	ug/L	80.0	ND	112	1-120	3.36	100
Dimethyl phthalate	79.5		10.0	ug/L	80.0	ND	99.4	1-120	2.70	183
Di-n-butyl phthalate	86.7		10.0	ug/L	80.0	ND	108	1-120	3.93	47
Di-n-octyl phthalate	101		10.0	ug/L	80.0	ND	127	4-146	3.26	69
Fluoranthene	75.2		10.0	ug/L	80.0	ND	94.0	26-137	0.294	66
Fluorene	75.2		10.0	ug/L	80.0	ND	94.0	59-121	1.63	38
Hexachlorobenzene	72.9		10.0	ug/L	80.0	ND	91.1	1-152	6.50	55
Hexachlorobutadiene	51.8		10.0	ug/L	80.0	ND	64.7	24-120	5.32	62
Hexachlorocyclopentadiene	54.0		10.0	ug/L	80.0	ND	67.5	1-140	5.88	50
Hexachloroethane	50.8		10.0	ug/L	80.0	ND	63.5	40-120	0.253	52
Indeno(1,2,3-cd)pyrene	60.5		10.0	ug/L	80.0	ND	75.6	1-171	3.12	99
Isophorone	77.0		10.0	ug/L	80.0	ND	96.2	21-196	4.02	93
Naphthalene	65.9		10.0	ug/L ug/L	80.0	ND	82.4	21-133	5.47	65
n-Decane	18.2		10.0	ug/L ug/L	80.0	ND	22.8	1-140	7.21	50
Nitrobenzene	67.9		10.0	ug/L ug/L	80.0	ND	84.9	35-180	5.09	50
N-Nitosodi-n-butylamine	92.9		10.0	ug/L ug/L	80.0	ND	116	1-140	0.273	50
N-Nitrosodiethylamine	77.3		10.0		80.0	ND	96.7	1-140	2.74	50
N-Nitrosodimethylamine				ug/L	80.0		34.8	1-140	0.215	50
	27.8 80.5		10.0	ug/L		ND ND	101	1-140	2.96	
N-Nitrosodi-n-propylamine			10.0	ug/L	80.0					87
N-Nitrosodiphenylamine	79.1		10.0	ug/L	80.0	ND	98.8	1-140	4.48	50
n-Octadecane	78.5		10.0	ug/L	80.0	ND	98.2	1-140	6.85	50
Pentachlorobenzene	79.5		10.0	ug/L	80.0	ND	99.3	1-140	2.79	50
Pentachlorophenol	91.1		10.0	ug/L	80.0	ND	114	14-176	0.161	86
Phenanthrene	80.8		10.0	ug/L	80.0	ND	101	54-120	6.08	39
Phenol	49.9		10.0	ug/L	80.0	ND	62.3	5-120	2.96	64
Pyrene	90.9		10.0	ug/L	80.0	ND	114	52-120	11.6	49
Pyridine	4.58 J		10.0	ug/L	80.0	ND	5.73	1-140		50
3-Methylphenol	26.0		20.0	ug/L	40.0	ND	64.9	1-140	6.29	50





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H395 - EPA 608	3									
Blank (B23H395-BLK1)			Pro	epared: 0	8/29/23 09	:07 Analyze	ed: 08/31/	23 11:19		
4,4'-DDD	ND		0.0256	ug/L		,	1.5			
4,4'-DDE	ND		0.00513	ug/L						
4,4'-DDT	ND		0.0256	ug/L						
Aldrin	ND		0.00513	ug/L						
Alpha-BHC	ND		0.00513	ug/L						
Beta-BHC	ND		0.00513	ug/L	si.					
Chlordane	ND		0.205	ug/L						
Delta-BHC	ND		0.00513	ug/L						
Dicofol	ND		0.0513	ug/L						
Dieldrin	ND		0.00513	ug/L						
Endosulfan I	ND		0.00513	ug/L						
Endosulfan II	ND		0.0256	ug/L						
Endosulfan Sulfate	ND		0.0256	ug/L						
Endrin	ND		0.0256	ug/L						
Endrin-Aldehyde	ND		0.00513	ug/L						
Gamma-BHC	ND		0.00513	ug/L						
Heptachlor	ND		0.00513	ug/L						
Heptachlor epoxide	ND		0.00513	ug/L						
Methoxychlor	ND		0.00513	ug/L						
Mirex	ND		0.00513	ug/L						
PCB-1016	ND		0.205	ug/L						
PCB-1221	ND		0.205	ug/L						
PCB-1232	ND		0.205	ug/L						
PCB-1242	ND		0.205	ug/L						
PCB-1248	ND		0.205	ug/L						
PCB-1254	ND		0.205	ug/L						
PCB-1260	ND		0.205	ug/L						
Toxaphene	ND		0.205	ug/L						
Polychlorinated biphenyls, Total	ND		0.205	ug/L					-	





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result Qua	l RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H395 -	EPA 608.3 (Continue	d)				Market Market		5-9300-0-9	SECTION AND ADDRESS
LCS (B23H395-BS1)	2.7.000.0 (00.7.1.1.00		epared: 0	8/29/23 09	:07 Analyze	ed: 09/07/	23 15:25		
4,4'-DDD	0.0365	0.0254	ug/L	0.0508	107 /11/01/20	72.0	31-141		
4,4'-DDE	0.0294	0.00508	ug/L	0.0508		58.0	30-145		
4,4'-DDT	0.0325	0.0254	ug/L	0.0508		64.0	25-160		
Aldrin	0.0315	0.00508	ug/L	0.0508		62.0	42-140		
Alpha-BHC	0.0426	0.00508	ug/L	0.0508		84.0	37-140		
Beta-BHC	0.0457	0.00508	ug/L	0.0508		90.0	17-147		
Chlordane	ND	0.203	ug/L				45-140		
Delta-BHC	0.0457	0.00508	ug/L	0.0508		90.0	34-140		
Dicofol (2)	0.104 BS ND	0.0508	ug/L	0.508		20.4	50-150		
Dieldrin	0.0406	0.00508	ug/L	0.0508		80.0	36-146		
Endosulfan I	0.0426	0.00508	ug/L	0.0508		84.0	45-153		
Endosulfan II	0.0437	0.0254	ug/L	0.0508		86.0	0-202		
Endosulfan Sulfate	0.0355	0.0254	ug/L	0.0508		70.0	50-150		
Endrin	0.0416	0.0254	ug/L	0.0508		82.0	30-147		
Endrin-Aldehyde	0.0274	0.00508	ug/L	0.0508		54.0	50-150		
Gamma-BHC	0.0457	0.00508	ug/L	0.0508		90.0	32-140		
Heptachlor	0.0335	0.00508	ug/L	0.0508		66.0	19-140		
Heptachlor epoxide	0.0406	0.00508	ug/L	0.0508		80.0	37-142		
Methoxychlor	0.0365	0.00508	ug/L	0.0508		72.0	26-144		
Mirex (2)	0.0203 BS ND	0.00508	ug/L	0.0508		40.0	50-150		
PCB-1016	ND	0.203	ug/L				50-140		
PCB-1221	ND	0.203	ug/L				15-178		
PCB-1232	ND	0.203	ug/L				10-215		
PCB-1242	ND	0.203	ug/L				39-150		
PCB-1248	ND	0.203	ug/L				38-158		
PCB-1254	ND	0.203	ug/L				29-140		
PCB-1260	ND	0.203	ug/L				8-140		
Toxaphene	ND	0.203	ug/L				41-140		





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H395 - EPA 608	8.3 (Conti	nued)								
LCS (B23H395-BS2)			Pre	epared: 0	8/29/23 09	:07 Analyz	ed: 08/31/	23 11:52		
PCB-1016	0.630		0.203	ug/L	1,02		62.1	50-140		
PCB-1260	0.519		0.203	ug/L	1.02		51.1	8-140		
Matrix Spike (B23H395-MS1)	Source	: 23H106	4-04 Pre	epared: 0	8/29/23 09	:07 Analyz	ed: 08/31/	23 12:24		
4,4'-DDD	0.0940		0.0500	ug/L	0.100	ND	94.0	31-141		
4,4'-DDE	0.0780		0.0100	ug/L	0.100	ND	78.0	30-145		
4,4'-DDT	0.0900		0.0500	ug/L	0.100	ND	90.0	25-160		
Aldrin (2)	0.0740		0.0100	ug/L	0.100	ND	74.0	42-140		
Alpha-BHC	0.0940		0.0100	ug/L	0.100	ND	94.0	37-140		
Beta-BHC (2)	0.120		0.0100	ug/L	0.100	ND	120	17-147		
Delta-BHC (2)	0.114		0.0100	ug/L	0.100	ND	114	34-140		
Dicofol (2)	0.492 N	1C1	0.100	ug/L	1.00	ND	49.2	50-150		
Dieldrin	0.0880	131	0.0100		0.100	ND	88.0	36-146		
	0.0880		0.0100	ug/L	0.100	ND	78.0	45-153		
Endosulfan I			0.0500	ug/L			134	0-202		
Endosulfan II	0.134			ug/L	0.100	ND				
Endosulfan Sulfate	0.116		0.0500	ug/L	0.100	ND	116	50-150		
Endrin	0.106		0.0500	ug/L	0.100	ND	106	30-147		
Endrin-Aldehyde	0.0920		0.0100	ug/L	0.100	ND	92.0	50-150		
Gamma-BHC	0.118		0.0100	ug/L	0.100	ND	118	32-140		
Heptachlor (2)	0.106		0.0100	ug/L	0.100	ND	106	19-140		
Heptachlor epoxide	0.0860		0.0100	ug/L	0.100	ND	86.0	37-142		
Methoxychlor	0.144		0.0100	ug/L	0.100	ND	144	26-144		
Mirex	0.0920		0.0100	ug/L	0.100	ND	92.0	50-150		
Matrix Spike Dup (B23H395-MSI	01) Source:	23H1064	1-04 Pre		8/29/23 09	:07 Analyz	ed: 08/31/	23 12:41		
4,4'-DDD	0.0860		0.0500	ug/L	0.100	ND	86.0	31-141	8.89	39
4,4'-DDE	0.0600		0.0100	ug/L	0.100	ND	60.0	30-145	26.1	35
4,4'-DDT	0.0720		0.0500	ug/L	0.100	ND	72.0	25-160	22.2	42
Aldrin (2)	0.0500		0.0100	ug/L	0.100	ND	50.0	42-140	38.7	35
Alpha-BHC	0.0900		0.0100	ug/L	0.100	ND	90.0	37-140	4.35	36
Beta-BHC (2)	0.118		0.0100	ug/L	0.100	ND	118	17-147	1.68	44
Chlordane	ND		0.400	ug/L		ND		45-140		24
Delta-BHC (2)	0.106		0.0100	ug/L	0.100	ND	106	34-140	7.27	43
Dicofol (2)	0.618		0.100	ug/L	1.00	ND	61.8	50-150	22.7	50
Dieldrin	0.0760		0.0100	ug/L	0.100	ND	76.0	36-146	14.6	49
Endosulfan I	0.0640		0.0100	ug/L	0.100	ND	64.0	45-153	19.7	28
	0.142		0.0500	ug/L ug/L	0.100	ND	142	0-202	5.80	53
Endosulfan II				1,000	0.100	ND	116	50-150	0.00	50
Endosulfan Sulfate	0.116		0.0500	ug/L				30-130	12.0	48
Endrin	0.0940		0.0500	ug/L	0.100	ND	94.0			
Endrin-Aldehyde	0.0640		0.0100	ug/L	0.100	ND	64.0	50-150	35.9	50
Gamma-BHC	0.100		0.0100	ug/L	0.100	ND	100	32-140	16.5	39
Heptachlor	0.124		0.0100	ug/L	0.100	ND	124	19-140	19.0	52
Heptachlor epoxide	0.0760		0.0100	ug/L	0.100	ND	76.0	37-142	12.3	26
Methoxychlor	0.138		0.0100	ug/L	0.100	ND	138	26-144	4.26	38
Mirex	0.0980		0.0100	ug/L	0.100	ND	98.0	50-150	6.32	50





Project: NW Full Scan

Project Number: 10495-076
Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H416 - EPA 16	5 <i>7</i>									
Blank (B23H416-BLK1)			Pre	epared: 0	8/31/23 08	:20 Analyz	ed: 09/15/	23 15:04		
Chlorpyrifos (2)	ND		0.255	ug/L						
Demeton-o (2)	ND		0.255	ug/L						
Demeton-s (2)	ND		0.255	ug/L		y .				
Diazinon (2)	ND		0.255	ug/L						
ethyl-Parathion (2)	ND		0.255	ug/L						
Malathion (2)	ND		0.255	ug/L						
methyl Azinphos (Guthion) (2)	ND		0.255	ug/L						
Surrogate: Tributylphoshpate (2)			0.974	ug/L	1.02		95.5	40-120		
Surrogate: Triphenylphosphate (2)			0.944	ug/L	1.02		92.5	40-120		
LCS (B23H416-BS1)			Pre	pared: 08	3/31/23 08	:20 Analyz	ed: 09/15/	23 16:15		
Chlorpyrifos (2)	0.950		0.250	ug/L	1.00		95.0	48-150		
Demeton-o (2)	0.485		0.250	ug/L	0.955		50.8	16-150		
Demeton-s (2)	0.670		0.250	ug/L	1.05		63.8	16-150		
Diazinon (2)	0.920		0.250	ug/L	1.00		92.0	50-150		
ethyl-Parathion (2)	0.900		0.250	ug/L	1.00		90.0	50-150		
Malathion (2)	0.960		0.250	ug/L	1.00		96.0	50-150		
methyl Azinphos (Guthion) (2)	1.20		0.250	ug/L	1.00		120	37-150		
Matrix Spike (B23H416-MS1)	Source	23H1064	1-04 Pre	pared: 08	3/31/23 08	:20 Analyz	ed: 09/15/	23 16:38		
Chlorpyrifos (2)	2.01		0.500	ug/L	2.00	ND	100	25-150		
Demeton-o (2)	1.26		0.500	ug/L	1.91	ND	66.0	25-150		
Demeton-s (2)	1,43		0.500	ug/L	2.10	ND	68.1	25-150		
Diazinon (2)	2.81		0.500	ug/L	2.00	ND	140	25-150		
ethyl-Parathion (2)	2.04		0.500	ug/L	2.00	ND	102	25-150		
Malathion (2)	2.01		0.500	ug/L	2.00	ND	100	25-150		
methyl Azinphos (Guthion) (2)	2.70		0.500	ug/L	2.00	ND	135	25-150		





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Semivolatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H416 - EPA 16	557 (Contii	nued)								
Matrix Spike Dup (B23H416-M	SD1) Source	23H1064-	04 Pre	epared: 08	3/31/23 08	:20 Analyz	ed: 09/15/	23 17:01		
Chlorpyrifos (2)	1.82		0.500	ug/L	2.00	ND	91.0	25-150	9.92	200
Demeton-o (2)	1.21		0.500	ug/L	1.91	ND	63.4	25-150	4.05	200
Demeton-s (2)	1.38		0.500	ug/L	2.10	ND	65.7	25-150	3.56	200
Diazinon (2)	2.63		0.500	ug/L	2.00	ND	132	25-150	6.62	200
ethyl-Parathion (2)	1.65		0.500	ug/L	2.00	ND	82.5	25-150	21.1	200
Malathion (2)	1.90		0.500	ug/L	2.00	ND	95.0	25-150	5.63	200
methyl Azinphos (Guthion) (2)	2.40		0.500	ug/L	2.00	ND	120	25-150	11.8	200





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Volatile Organics

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H397 - EPA 624	1									
Blank (B23H397-BLK1)			Pre	epared: 08	3/28/23 08	:48 Analyze	d: 08/28/	23 09:12		
1,1,1-Trichloroethane	ND		5.00	ug/L						
1,1,2,2-Tetrachloroethane	ND		5.00	ug/L						
1,1,2-Trichloroethane	ND		5.00	ug/L						
1,1-Dichloroethane	ND		5.00	ug/L						
1,1-Dichloroethene	ND		5.00	ug/L						
1,2-Dibromoethane	ND		5.00	ug/L						
1,2-Dichlorobenzene	ND		5.00	ug/L						
1,2-Dichloroethane	ND		5.00	ug/L						
1,2-Dichloropropane	ND		5.00	ug/L						
1,3-Dichlorobenzene	ND		5.00	ug/L						
1,4-Dichlorobenzene	ND		5.00	ug/L						
2-Butanone	ND		10.0	ug/L						
2-Chloroethyl vinyl ether	ND		5.00	ug/L						
Acrolein	ND		5.00	ug/L						
Acrylonitrile	ND		5.00	ug/L						
Benzene	ND		5.00	ug/L						
Bromodichloromethane	ND		5.00	ug/L						
Bromoform	ND		5.00	ug/L						
Bromomethane	ND		5.00	ug/L						
Carbon Disulfide	ND		5.00	ug/L						
Carbon Tetrachloride	ND		5.00	ug/L						
Chlorobenzene	ND		5.00	ug/L						
Chloroethane	ND		5.00	ug/L						
Chloroform	ND		4.00	ug/L						
chloromethane	ND		5.00	ug/L						
cis-1,2-Dichloroethene	ND		5.00	ug/L						
cis-1,3-Dichloropropene	ND		5.00	ug/L						
Dibromochloromethane	ND		5.00	ug/L						
Epichlorohydrin	ND		25.0	ug/L						
Ethylbenzene	ND		5.00	ug/L						
m+p-Xylene	ND		10.0	ug/L						
Methylene Chloride	ND		5.00	ug/L						
Methyl-tert-butyl ether (MTBE)	ND		5.00	ug/L						
o-Xylene	ND		5.00	ug/L						
Styrene	ND		5.00	ug/L						
Tetrachloroethene	ND		5.00	ug/L						
Toluene	ND		5.00	ug/L						
trans-1,2-Dichloroethene	ND		4.00	ug/L						
trans-1,3-Dichloropropene	ND		5.00	ug/L						
Trichloroethene	ND		5.00	ug/L						
Vinyl acetate	ND		5.00	ug/L						
Vinyl chloride	ND		5.00	ug/L						
Xylenes, Total	ND		5.00	ug/L						
Total Trihalomethanes	ND		5.00	ug/L						
1,3-Dichloropropene, Total	ND		5.00	ug/L						





Project: NW Full Scan Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Volatile Organics (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H397 - EPA 624	1.1 (Conti	inued)								
Matrix Spike (B23H397-MS1)	Source	: 23H1064-03	Pre	epared: 08	3/28/23 08	:48 Analyz	ed: 08/28/	23 12:17		
1,1,1-Trichloroethane	21.0			ug/L	20.0	0.00	105	52-162		
1,1,2,2-Tetrachloroethane	20.6			ug/L	20.0	0.00	103	46-157		
1,1,2-Trichloroethane	21.1			ug/L	20.0	0.00	105	52-150		
1,1-Dichloroethane	20.6			ug/L	20.0	0.00	103	59-155		
1,1-Dichloroethene	18.9			ug/L	20.0	0.00	94.5	0-234		
1,2-Dibromoethane	20.6			ug/L	20.0	0.00	103	60-140		
1,2-Dichlorobenzene	20.1			ug/L	20.0	0.00	100	18-190		
1,2-Dichloroethane	21.0			ug/L	20.0	0.00	105	49-155		
1,2-Dichloropropane	21.2			ug/L	20.0	0.00	106	0-210		
1,3-Dichlorobenzene	19.9			ug/L	20.0	0.00	99.5	59-156		
1,4-Dichlorobenzene	20.6			ug/L	20.0	0.00	103	18-190		
2-Butanone	35.1			ug/L	40.0	0.00	87.8	60-140		
2-Chloroethyl vinyl ether	25.5			ug/L	20.0	0.00	128	0-305		
Acrolein	2.22 N	1S1		ug/L	20.0	0.00	11.1	40-160		
Acrylonitrile	21.8			ug/L	20.0	0.00	109	40-160		
Benzene	20.9			ug/L	20.0	0.00	104	37-151		
Bromodichloromethane	25.4			ug/L	20.0	4.63	104	35-155		
Bromoform	20.4			ug/L	20.0	0.00	102	45-169		
Bromomethane	22.0			ug/L	20.0	0.00	110	0-242		
Carbon Disulfide	22.7			ug/L	20.0	0.00	114	60-140		
Carbon Tetrachloride	20.1			ug/L	20.0	0.00	100	70-140		
Chlorobenzene	20.7			ug/L	20.0	0.00	104	37-160		
Chloroethane	23.8			ug/L	20.0	0.00	119	14-230		
Chloroform	33.8			ug/L	20.0	13.5	102	51-138		
chloromethane	24.5			ug/L	20.0	0.00	122	0-273		
cis-1,2-Dichloroethene	20.6			ug/L	20.0	0.00	103	60-140		
cis-1,3-Dichloropropene	20.7			ug/L	20.0	0.00	103	0-227		
Dibromochloromethane	21.8			ug/L	20.0	0.00	109	53-149		
Epichlorohydrin	104			ug/L	100	0.00	104	70-130		
Ethylbenzene	20.9			ug/L	20.0	0.00	105	37-162		
m+p-Xylene	41.4			ug/L	40.0	0.00	104	60-140		
Methylene Chloride	20.3			ug/L	20.0	0.00	102	0-221		
Methyl-tert-butyl ether (MTBE)	21.0			ug/L	20.0	0.00	105	70-130		
o-Xylene	20.2			ug/L	20.0	0.00	101	60-140		
Styrene	20.3			ug/L	20.0	0.00	102	60-140		
Tetrachloroethene	20.3			ug/L	20.0	0.00	101	64-148		
Toluene	20.7			ug/L	20.0	0.00	104	47-150		
trans-1,2-Dichloroethene	20.4			ug/L	20.0	0.00	102	54-156		
trans-1,3-Dichloropropene	20.1			ug/L	20.0	0.00	100	17-183		
Trichloroethene	20.7			ug/L	20.0	0.00	104	70-157		
Vinyl acetate	25.4			ug/L	20.0	0.00	127	60-140		
Vinyl chloride	24.2			ug/L	20.0	0.00	121	0-251		



Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Volatile Organics (Continued)

Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	rce: 23H1064-0 .8 .8 .7 .4 .7)3 Pre	ug/L ug/L	8/28/23 08 20.0 20.0	:48 Analyz 0.00	ed: 08/28/			
1,1,1-Trichloroethane 20 1,1,2,2-Tetrachloroethane 20 1,1,2-Trichloroethane 20 1,1-Dichloroethane 20 1,1-Dichloroethane 18 1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloroethane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.8 .8 .7 .4)3 Pre	ug/L ug/L	20.0	0.00				
1,1,2,2-Tetrachloroethane 20 1,1,2-Trichloroethane 20 1,1-Dichloroethane 20 1,1-Dichloroethane 18 1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloroethane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.8 .7 .4 .7		ug/L			104			
1,1,2-Trichloroethane 20 1,1-Dichloroethane 20 1,1-Dichloroethane 18 1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.7 .4 .7			20.0		104	52-162	0.815	36
1,1-Dichloroethane 20 1,1-Dichloroethene 18 1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.4 .7		110/1		0.00	104	46-157	0.532	61
1,1-Dichloroethene 18 1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloroethane 21 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.7		ug/L	20.0	0.00	104	52-150	1.82	45
1,2-Dibromoethane 20 1,2-Dichlorobenzene 20 1,2-Dichloroethane 21 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	102	59-155	0.926	40
1,2-Dichlorobenzene 20 1,2-Dichloroethane 21 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	.2		ug/L	20.0	0.00	93.3	0-234	1.28	32
1,2-Dichloroethane 21 1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	101	60-140	2.16	20
1,2-Dichloropropane 21 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	101	18-190	0.497	57
1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	105	49-155	0.00	49
1,4-Dichlorobenzene 20 2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	105	0-210	1.33	55
2-Butanone 35 2-Chloroethyl vinyl ether 25 Acrolein 1.9 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	100	59-156	0.950	43
2-Chloroethyl vinyl ether 25 Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	104	18-190	0.966	57
Acrolein 1.5 Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	40.0	0.00	88.3	60-140	0.625	20
Acrylonitrile 21 Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	128	0-305	0.157	71
Benzene 20 Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20	2 MS1		ug/L	20.0	0.00	9.60	40-160	14.5	60
Bromodichloromethane 25 Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	107	40-160	2.31	60
Bromoform 20 Bromomethane 23 Carbon Disulfide 22 Carbon Tetrachloride 20 Chlorobenzene 20			ug/L	20.0	0.00	103	37-151	1.50	61
Bromomethane 23. Carbon Disulfide 22. Carbon Tetrachloride 20. Chlorobenzene 20.			ug/L	20.0	4.63	104	35-155	0.0393	56
Carbon Disulfide 22. Carbon Tetrachloride 20. Chlorobenzene 20.			ug/L	20.0	0.00	101	45-169	1.33	42
Carbon Tetrachloride 20. Chlorobenzene 20.			ug/L	20.0	0.00	118	0-242	7.20	61
Chlorobenzene 20.			ug/L	20.0	0.00	112	60-140	1.51	20
			ug/L	20.0	0.00	101	70-140	0.694	41
			ug/L	20.0	0.00	102	37-160	1.36	53
Chloroethane 22.			ug/L	20.0	0.00	112	14-230	5.92	78 54
Chloroform 34.			ug/L	20.0	13.5	103	51-138 0-273	0.766 2.02	60
chloromethane 24.			ug/L	20.0	0.00	120 104	60-140	0.966	20
cis-1,2-Dichloroethene 20.			ug/L	20.0 20.0	0.00	104	0-227	0.826	58
cis-1,3-Dichloropropene 20.			ug/L	20.0	0.00	102	53-149	0.830	50
Dibromochloromethane 21. Epichlorohydrin 10			ug/L	100	0.00	105	70-130	0.892	20
			ug/L ug/L	20.0	0.00	103	37-162	1.49	63
Ethylbenzene 20. m+p-Xylene 41.			ug/L ug/L	40.0	0.00	103	60-140	1.49	20
Methylene Chloride 19.			ug/L ug/L	20.0	0.00	99.6	0-221	1.94	28
Methyl-tert-butyl ether (MTBE) 20.			ug/L ug/L	20.0	0.00	104	70-130	1.05	20
The state of the s			ug/L ug/L	20.0	0.00	99.7	60-140	1.30	20
o-Xylene 19. Styrene 20.			ug/L ug/L	20.0	0.00	101	60-140	0.592	20
Tetrachloroethene 20.			ug/L ug/L	20.0	0.00	100	64-148	0.392	39
Toluene 20.			ug/L ug/L	20.0	0.00	102	47-150	1.66	41
trans-1,2-Dichloroethene 20.			ug/L ug/L	20.0	0.00	101	54-156	1.38	45
trans-1,3-Dichloropropene 20.			ug/L ug/L	20.0	0.00	100	17-183	0.399	86
Trichloroethene 20.			ug/L ug/L	20.0	0.00	103	70-157	0.532	48
Vinyl acetate 24.			ug/L ug/L	20.0	0.00	124	60-140	2.39	20
Vinyl chloride 23.			ug/L ug/L	20.0	0.00	119	0-251	1.25	66





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23H367 - ASTM D75	511									
Blank (B23H367-BLK1)			Pr	epared:	08/25/23 08:	45 Analyz	zed: 08/25/	23 13:03		
Cyanide, Amenable	ND		2.00	ug/L						
Cyanide, Total	ND	a la familia de la familia	10.0	ug/L						
LCS (B23H367-BS1)			Pr	epared: (08/25/23 08:	45 Analyz	ed: 08/25/	23 13:08		
Cyanide, Total	103			ug/L	100		103	84-116		
Cyanide, Amenable	50.3			ug/L	50.0		101	82-132		
Duplicate (B23H367-DUP1)	Source:	23H1063-03	l Pro	epared: (08/25/23 08:	45 Analyz	ed: 08/25/	23 14:43		
Cyanide, Amenable	7.55		2.00	ug/L		7.20			4.67	15
Cyanide, Total	11.6		10.0	ug/L		12.1			4.50	47
Matrix Spike (B23H367-MS1)	Source:	23H1063-03	Pre	epared: (08/25/23 08:	45 Analyz	ed: 08/25/	23 14:48		
Cyanide, Amenable	55.1			ug/L	50.0	7.20	95.8	82-130		
Cyanide, Total	61.9			ug/L	50.0	12.1	99.6	64-136		
Batch: B23I218 - EPA 218.6										
Blank (B23I218-BLK1)			Pre	enared: (09/15/23 12:0	00 Analyz	ed: 09/15/	23 15:33		
Chromium Hexavalent	ND		1.00	ug/L	55/15/25 12.	50 7111dry2		23 13.33		
.CS (B23I218-BS1)			Pre	epared: 0	09/15/23 12:0	00 Analyz	ed: 09/15/	23 15:44		
Chromium Hexavalent	4.97			ug/L	5.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	99.3	90-110		
Matrix Spike (B23I218-MS1)	Source:	2310574-02	Pre	epared: 0	09/15/23 12:0	00 Analyz	ed: 09/15/2	23 17:13		
Chromium Hexavalent	4.88		1.01	ug/L	5.03	ND	97.0	80-120		
Matrix Spike Dup (B23I218-MSD1)	Source:	2310574-02	Pre	epared: 0	9/15/23 12:0	00 Analyze	ed: 09/15/2	23 17:24		
Chromium Hexavalent	5.19		1.01	ug/L	5.03	ND .	103	80-120	6.33	20





Project: NW Full Scan

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:32

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23I218 - EPA 218	3.6 (Contin	ued)								
Reference (B23I218-SRM1)	•	_	Pre	pared: 09	9/15/23 12	:00 Analyze	ed: 09/15/	23 17:35		
Chromium Hexavalent	7.86			ug/L	7.50		105	0-200		
Reference (B23I218-SRM2)			Pre	pared: 09	9/15/23 12	:00 Analyze	ed: 09/15/	23 17:46		
Chromium Hexavalent	15.8			ug/L	15.0		105	0-200		
Reference (B23I218-SRM3)			Pre	pared: 09	9/15/23 12	:00 Analyze	ed: 09/15/	23 17:57		
Chromium Hexavalent	31.7			ug/L	30.0		106	0-200		



Project: NW Full Scan

Project Number: 10495-076

Reported:

Project Manager: Regulatory Compliance

11/09/2023 07:32

Notes and Definitions

Item	Definition
BS ND	Blank Spike recovered above acceptance limits. Associated samples were non-detect, therefore data have been reported.
CCV ND	Continuing Calibration Verification (CCV) contained target analytes above the acceptance limit. Associated samples were non-detect for those analytes, therefore data have been reported.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
MS1	MS/MSD recovery was outside of acceptance criteria due to matrix interference.
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Company Name:	Northwest Pollutants Monitoring
Address:	5423 Mangum Rd Houston, TX 77091
Permit Number:	10495-076

Company Name:	Northwest Pollutants Monitoring	lonitoring		Sampler: Raymond
Address:	5423 Mangum Rd Houston, TV 72001		National Control of the Control of t	S SMI,
	18077 X1 '1038001			[] Permit Requirement [] Special Report [] Other
Permit Number:	10495-076	7		NW Full Scan
	Composite Info]	Field Test
Sample ID:	23H1064-84	23H1064-04		TRC ID:
Split Samples:	Yes (No.)	Yes No		Temperature ID:
Number of bottles:	12345	12345		pH Measured By:
Sample Volume:	ADO ML	KOD mL	100 a	pH ID:
Sample Interval:	30 min	S.S. Jain		Eff Sampler temp(°C)
Autosampler secured/locked:	ked: Yes No N/A	Yes No N/A		incampler temp(C)
Comp Temp(°C)	4.0	7.7	*Matrix: W - Water, S - Solid, C - Chemical	- Solid, C - Chemical

oampier.	Raymond Labullero, C.C.	Clestencia
	IWS Sample Reason	uc
Permit Require Special Report Other	ment []	Compliance Verifica POTW Permit Appli

Field Test Traceability Info	llity Info
TRC ID:	\
Temperature ID: N / A	
pH Measured By:	Paper Meter
PH ID:	
Eff Sangpler temp(°C)	
Inf-Sampler temp(°C)	

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23H1064

Page 1 of 1

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Sample comments key:

ND - No Discharge IQ - Insufficient Quantity CC - Company Closed EF - Equipment Failure Other (write in description)

	LOT SERVICE MARKET	14	0							_	`	Т		T		ءَ ٦	1	iii
	Comments	(4) VOAS 624,1, 40-	2001 600 600	*Collery AS	とうな てない	4680.	e		A NOA, 624.1,4	acrts/MTV, CD-00	とうとうしていると	+ collean Ast	1 651 CB A 46	4 PARTS 9 GRADS.		17 12 124 124 1CA BELL	Location	WHEN BOXES COMPLETE WATCHESTS TO SELECT
	Field Test				11											L MADELLO	633	With Midwing Colors Day Francis
	Test Method	Cyanide OIA 1677 Cyanide D7511	VOA 624.1	Pesticides 608.3 Pesticides 1657	BNA 625.1	Chromium, Hexavalent 218.6	Metals WWTP Inf	Mercury 245.1	Cyanide OIA 1677 Cyanide D7511	Mercury 1631E 🖄	VOA 624.1	Pesticides 608.3	BNA 625.1	Mercury 1631E		DAPLIESS GALTS COLLE		STATES STATES STATES
	Container with Preservation	ひろる 子 (1) 1 LAmber Glass, PTFE Lined Cap Cool <6°C, NaOH to pH Cyanide OIA 1677 >10, NaAsO2 if TRC present Cyanide D7511	$8/34/\lambda\omega$ $8/2U/2$ (8) 40 mL Glass, PTFE lined septum Cool <6°C, HCl to pH <2 VOA 624.1	'6) 1 L Amber Glass, PTFE Lined Cap Cool <6°C, 0.008% Na2S2O3		∑∑(4) 1 L PE or G Cool <6°C, (NH4)2SO4 buffer, NaOH to pH <u>9.3-9.7</u>	(2) 1 L PE or Glass Cool <6°C, HNO3 to pH <2		(1) 1 LAmber Glass, PTFE Lined Cap Cool <6°C, NaOH to pH Cyanide OlA 1677	(6) 40 mL Glass, PTFE lined septum Cool <6°C	(8) 40 mL Glass, PTFE lined septum Cool <6°C, HCl to pH <2 VOA 624.1	(9) 1 L Amber Glass, PTFE Lined Cap Cool <6°C, 0.008% Na2S203		ϕ 4/5/q (1) 40 mL Glass, PTFE lined septum Cool <6°C		8,2150	Location Received by: (Signature)	
9	Begin (End) Sampled Sampled Date/Time	1000	8/24/23 C	(5,00 Na2S203	7	2012/20			2150	<u></u>		00:00	श्रीयशि	b5h0	8/24/2003	DMB. 0509,1044,160	, ,	
	Begin Sampled Date/Time		8/24/100	6:00		SPORTS			0509	,	8/142/18 Stock/6/8	30,00	12/1/12/60			3.0509	Date/Time	
/ / /	Location	SP 1_CompMan		SP 1_Comp					SP 2_CompMan			SP 2_Comp		Field Blank		1		-
	Matrix*	≥		3					3			3		≱		COLLETTON	ıture)	
	Grab/ Comp	CMan		O					CMan	51241		ပ		Ø		Ö	Kelinquished by: (Signature)	
	# Cont	5		თ					25			6		-		56 FS	ulshed	^
	Sample Identification	23H1064-01		23H1064-02			١		22H1064-03			23H1064-04		23H1064-05	9	017	y Kelling	

Location

8/25/23/11:56

Date/Time

Received by: (Signature)

Location

Date/Time

Relinquished by: (Signature)

Silving



November 09, 2023

ANALYTICAL REPORT

City of Houston Wastewater Operations Laboratory 10500 Bellaire Blvd Houston, TX 77072

Regulatory Compliance Northwest 5423 Mangum Rd Houston, TX 77091

Project Site: Northwest Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 10/9/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm Division Manager





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:31

PDFFileStart [TOCPAGEMARKER] PDFFileEnd





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:31

Samples in this Report

Lab ID	Sample	3	Matrix	Date Sampled	Date Received
23J0229-01	SP 02_Grab	Northwest Effluent	Water	10/09/2023 06:59	10/09/2023 09:25





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:31

Sample Results

Sample: SP 02_Grab Northwest Effluent

23J0229-01 (Water)

										Analyst	
Analyte	Result	Qual	DL	RL	Units	Date Prep	ared	Date Ana	lyzed	Initials	Method
Wet Chemistry											
Chlorine, total residual	ND		0.100	0.100	mg/L	10/09/2023	06:59	10/09/2023	06:59	JF	SM 4500-Cl D
Microbiology											
E.coli	ND		1	1	MPN/100 mL	10/09/2023	10:23	10/10/2023	11:08	JT	Colilert
Field											
Temperature, Celsius	24.2		0.00	0.100	°C	10/09/2023	06:59	10/09/2023	06:59	JF	EPA 170.1
Oxygen, dissolved	6.40		1.00	1.00	mg/L	10/09/2023	06:59	10/09/2023	06:59	JF	SM 4500-O G
pH	7.40		0.0100	2.00	SU	10/09/2023	06:59	10/09/2023	06:59	JF	SM 4500-H+ B



Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:31

Quality Control

Microbiology

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J117 - Colilert Blank (B23J117-BLK1) E.coli	ND			epared: 10 IPN/100mL	51 2	:23 Analyz	ed: 10/10/	23 11:08		
LCS (B23J117-BS1) E.coli	127			epared: 10 PN/100mL	5. 5	:23 Analyze	ed: 10/10/ 90.4	23 11:08 50-150		
Duplicate (B23J117-DUP1) E.coli	Source ND	: 23J0331-03		epared: 10 PN/100mL		:23 Analyze	ed: 10/10/	23 11:08		50
Duplicate (B23J117-DUP2) E.coli	Source:	: 23J0352-03		epared: 10 PN/100mL		:23 Analyze	ed: 10/10/	23 11:08		50





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:31

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit

Company Name:	Northwest Pollutants Monitoring	
Address:	5423 Mangum Rd Houston, TX 77091	
Permit Number:	10495-076	inter .

Company Name:	Northwest Pollutants Monitoring	onitoring	
Address:	5423 Mangum Rd Houston, TX 77091		- Tanan
Permit Number:	10495-076		
/	Composite Info		
Sample ID;			
Split Samples:	Yes No	Yes No	2-5521
Number of bottles:	12345_	12345	
Sample Volume:	1	mL	
Sample Interval:	mim	mim	_ ×
Autosampler secured/locked:	ed: Yes No N/A	Yes No N/A	2
Comp Temp(°C)			Ž

May Car	WS Sample Reason	[] Compliance V	N + Permit
Sampler:	s smi	(1) Permit Requirement [1] Special Report [1] Other	NW Metals, CN +
	310		

TRC ID: © \$120 CS		Field Test Traceability Info	eability Info	
		TRC ID:	3/120c/165	63
		Temperature ID:	T-13/289	
		pH Measured By:	8	
1		pH ID:	(31177007	5
	1	Eff Sampler temp(°C))
Matrix: W - Water, S - Solid, C - Chemica んとか、 11 円 10 (3 3 5)	シャ	Inf Sampler temp(°C)		
	natrix: W - Wate	را رر S - Solid, C - Chemica الله	-	

WEI C		Compliance Verification POTW Permit Application
カって	WS Sample Reason	[] Compliano
686	IWS Sa	t Requirement al Report
Sampler:	1	W Permit Require [] Special Report [] Other

2330229

Page 1 of 1

ey:	
Sample comments ke	ND - No Discharge IQ - Insufficient Quantity CC - Company Closed EF - Equipment Failure Other (write in description)

	Comments					
	Field Test	P, S (Moll)	四 一 一 四回	[8]	[B] Temp 24/2	[B] TRC 0.0/
	Test Method	Total Coliform and E.coli by Colilert	9.8	pH 4500-H+ B	Dissolved Oxygen	Chlorine 4500 G
	Container with Preservation	(1) 290 mL Sterile Plastic Cool <10°C, 0.008% Na2S2O3	(1) N/A None			
	Begin (End) Sampled Sampled Date/Time Date/Time	(c) 65:9		20012	-	
ł	Begin Sampled Date/Time					
	Location	SP 02_Grab				
	Matrix*	8				
	Grab/ Comp	9				
	# Cont	-				
	Sample # Cont Grab/ Matrix*	23J0229-01				

iigilatule)	, / Date/Time	Location	Received by: (Signature)	Date/Time	location
)	526 - 22/60/0)		H. O. H.	10/2/2- 925	//0/
gnature)	1 Date/Time	Location	Received by: (Signature)	Date/Time	+100
		Service Control (Note Control	(ciliania): (ciliania)	Card IIIIO	Location



November 09, 2023

ANALYTICAL REPORT

City of Houston Wastewater Operations Laboratory 10500 Bellaire Blvd Houston, TX 77072

Regulatory Compliance Northwest 5423 Mangum Rd Houston, TX 77091

Project Site: Northwest Pollutants

Enclosed are the results of analyses for samples received by the laboratory on 10/10/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brandon Grimm Division Manager





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

PDFFileStart [TOCPAGEMARKER] PDFFileEnd





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Samples in this Report

Lab ID	Sample		Matrix	Date Sampled	Date Received
23J0230-01	SP 1_CompMan	Northwest Influent	Water	10/09/2023 22:41	10/10/2023 11:27
23J0230-02	SP 1_Comp	Northwest Influent	Water	10/10/2023 06:00	10/10/2023 11:27
23J0230-03	SP 2_CompMan	Northwest Effluent	Water	10/09/2023 22:30	10/10/2023 11:27
23J0230-04	SP 2_Comp	Northwest Effluent	Water	10/10/2023 08:00	10/10/2023 11:27
23J0230-05	Field Blank	Field Blank Northwest	Water	10/09/2023 12:03	10/10/2023 11:27



Northwest 5423 Mangum Rd

Houston, TX 77091

Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

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11/09/2023 07:29

Sample Results

Sample: SP 1_CompMan Northwest Influent 23J0230-01 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Cyanide, Amenable	7.27		0.946	2.00	ug/L	10/12/2023 11:0	01 10/12/2023 16:38	SBL	OIA 1677
Cyanide, Total	25.8		3.14	10.0	ug/L	10/12/2023 11:0	01 10/12/2023 16:38	SBL	ASTM D7511



Project: NW Metals, CN + Permit

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Sample Results (Continued)

Sample: SP 1_Comp Northwest Influent

23J0230-02 (Water)

Analyte	Result (Qual DL	RL	Units	Date Prepare	ed Date Ana	lyzed	Analyst Initials	Method
Total Metals									
Silver	ND	1.74	20.0	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Aluminum	408	18.0	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Arsenic	ND	32.0	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Barium	112	7.94	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Beryllium	ND	1.42	20.0	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Cadmium	ND	2.74	20.0	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Chromium	9.53]	7.39	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Copper	32.4 J	7.25	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Nickel	ND	12.6	100	ug/L	10/30/2023 07	7:45 10/31/2023	13:06	VP	EPA 200.7
Lead	ND	27.2	100	ug/L	10/30/2023 07	2:45 10/31/2023	13:06	VP	EPA 200.7
Antimony	ND	37.1	100	ug/L	10/30/2023 07	2:45 10/31/2023	13:06	VP	EPA 200.7
Selenium	ND	43.1	100	ug/L	10/30/2023 07	2:45 10/31/2023	13:06	VP	EPA 200.7
Thallium	ND	82.3	200	ug/L	10/30/2023 07	2:45 10/31/2023	13:06	VP	EPA 200.7
Vanadium	ND	11.9	100	ug/L	10/30/2023 07	:45 10/31/2023	13:06	VP	EPA 200.7
Zinc	124	12.9	100	ug/L	10/30/2023 07	:45 10/31/2023	13:06	VP	EPA 200.7
Mercury	0.0589 J	0.0253	0.100	ug/L	10/25/2023 08	:04 10/26/2023	14:04	KEN	EPA 245.1
Chromium Trivalent	9.53 J	7.39	100	ug/L	10/30/2023 07	:45 10/31/2023	13:06	VP	Calculated
Wet Chemistry									
Chromium Hexavalent	ND	0.244	1.00	ug/L	10/27/2023 07	:45 10/27/2023	10:42	VP	EPA 218.6





Project: NW Metals, CN + Permit

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Sample Results (Continued)

Sample: SP 2_CompMan Northwest Effluent

23J0230-03 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepa	ared Da	te Analy	zed	Analyst Initials	Method
Total Metals Mercury	0.888		0.0928	0.500	ng/L	10/18/2023	11:26 10/1	9/2023 1	12:12	KEN	EPA 1631E
Wet Chemistry Cyanide, Amenable Cyanide, Total	4.37 6.29 J		0.946 3.14	2.00 10.0	ug/L ug/L	10/12/2023 10/12/2023	was seen a pallent	odin reces			OIA 1677 ASTM D7511





Project: NW Metals, CN + Permit

Project Number: 10495-076

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Sample Results (Continued)

Sample: SP 2_Comp Northwest Effluent

23J0230-04 (Water)

Analyte	Result	Qual DL	RL	Units	Date Prepa	red	Date Ana	lyzed	Analyst Initials	Method
Total Metals								772 US		
Phosphorous, Total	303	19.4	250	ug/L	10/16/2023	13:07 1	0/17/2023	10:05	KEN	EPA 200.7
Wet Chemistry										
Total Alkalinity as CaCO3	116	20.0	20.0	mg/L	10/13/2023 1	12:43 1	0/13/2023	12:43	KEN	SM 2320 B
Total Dissolved Solids	589	5.0	5.0	mg/L	10/12/2023 1	13:38 10	0/13/2023	10:52	KEN	SM 2540 C
Total Suspended Solids	5.2	2.0	2.0	mg/L	10/10/2023 1	12:02 10	0/10/2023	14:15	SMS	SM 2540 D
Nitrate as N	8.85	.00700	0.100	mg/L	10/11/2023 1	L4:07 10	0/11/2023	14:07	KEN	EPA 300.0
Ammonia as N	0.628	0.0204	0.0500	mg/L	10/12/2023 1	15:02 10	0/12/2023	15:02	BVC	EPA 350.1
Total Kjeldahl Nitrogen	2.02	0.209	0.500	mg/L	10/16/2023 1	1:00 10	0/17/2023	11:00	VP	SM 4500-NH3 D
Biochemical Oxygen Demand, Carbonaceous	3.40	0.200	2.26	mg/L	10/11/2023 0	08:53 10	0/16/2023	10:29	ZS	SM 5210 B





Project: NW Metals, CN + Permit

Project Number: 10495-076

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Project Manager: Regulatory Compliance

Sample Results (Continued)

Sample: SP 2_Comp Northwest Effluent

23J0230-04 (Water)

Analyte	Result	Qual	DL	RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Wet Chemistry									
Chloride (Reshot)	134		1.16	4.00	mg/L	10/11/2023 16:55	10/11/2023 16:55	KEN	EPA 300.0
Sulfate (Reshot)	99.9		1.77	4.00	mg/L	10/11/2023 16:55	10/11/2023 16:55	KEN	EPA 300.0





Project: NW Metals, CN + Permit

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Project Manager: Regulatory Compliance

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Sample Results (Continued)

Sample: Field Blank Field Blank Northwest

23J0230-05 (Water)

Analyte	Result	Qual	DL RL	Units	Date Prepared	Date Analyzed	Analyst Initials	Method
Total Metals Mercury	ND		0.0928 0.500	ng/L	10/18/2023 11:26	10/19/2023 13:12	KEN	EPA 1631E



Project: NW Metals, CN + Permit

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Quality Control

Total Metals

Analyte	Result	Qual	RL	Units	Spike Leve		ource Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J234 - EPA 200.7 Blank (B23J234-BLK1) Phosphorous, Total	ND		Pr 250	epared: ug/L	10/16/23	13:07	Analyzed	l: 10/17/	23 10:02		
LCS (B23J234-BS1) Phosphorous, Total	1960		Pr 250	epared: ug/L	10/16/23 2000	13:07	Analyzed	l: 10/17/ 97.9	23 10:00 85-115		
Duplicate (B23J234-DUP1) Phosphorous, Total	Source: 310	23J0230-04	Pro 250	epared: ug/L	10/16/23	13:07	Analyzed 303	: 10/17/	23 10:08	2.28	20
Matrix Spike (B23J234-MS1) Phosphorous, Total	Source: 2440	23J0230-04	Pro 250	epared: ug/L	10/16/23 2000	13:07	Analyzed 303	: 10/17/ 107	23 10:10 70-130		
Matrix Spike Dup (B23J234-MSD1) Phosphorous, Total	Source: 2420	23J0230-04	250	epared: ug/L	10/16/23	13:07	Analyzed 303	: 10/17/2 106	23 10:13 70-130	0.868	20
Batch: B23J271 - EPA 1631E Blank (B23J271-BLK1) Mercury	ND	5	Pre 0.500	epared: ng/L	10/18/23	11:26	Analyzed	: 10/19/2	23 11:52		
Blank (B23J271-BLK2) Mercury	ND		Pre 0.500	epared: ng/L	10/18/23	11:26	Analyzed	: 10/19/2	23 13:02		
Blank (B23J271-BLK3) Mercury	ND		Pre 0.500	epared: ng/L	10/18/23 1	11:26	Analyzed:	: 10/19/2	23 13:42		
Blank (B23J271-BLK4) Mercury	ND		Pre 0.500	epared: ng/L	10/18/23 1	1:26	Analyzed:	10/19/2	23 13:32		



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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J271 - EPA 1631L	(Conti	inued)								
LCS (B23J271-BS1)			Pr	epared:	10/18/23 11	:26 Analyze	ed: 10/19/	23 11:42		
Mercury	5.17		0.500	ng/L	5.00		103	77-123		
LCS (B23J271-BS2)			Pr	epared:	10/18/23 11:	:26 Analyze	ed: 10/19/	23 12:52		
Mercury	4.96		0.500	ng/L	5.00		99.3	77-123		
LCS (B23J271-BS3)			Pro	epared:	10/18/23 11:	26 Analyze	ed: 10/19/	23 13:52		
Mercury	4.85		0.500	ng/L	5.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	97.0	77-123		
Matrix Spike (B23J271-MS1)	Source	23J0230	-03 Pre	enared:	10/18/23 11:	26 Analyze	d: 10/19/	23 12:22		
Mercury	5.68	. 2550250	0.500	ng/L	5.00	0.888	95.8	71-125		
Matrix Spike Dup (B23J271-MSD1)	Source	23J0230	-03 Pre	epared:	10/18/23 11:	26 Analyze	d: 10/19/	23 12:32		
Mercury	5.67		0.500	ng/L	5.00	0.888	95.6	71-125	0.167	24
Batch: B23J330 - EPA 245.1										
			Dec	narod:	10/25/22 00.	04 Applya	4. 10/26/	22 12:40		
Blank (B23J330-BLK1) Mercury	ND		0.100	uq/L	10/25/23 08:	04 Analyze	u: 10/26/	23 13:49		
riercal y			0.100	ug/L						
LCS (B23J330-BS2)			Pre	epared:	10/25/23 08:	04 Analyze	d: 10/26/	23 13:45		
Mercury	5.35		0.100	ug/L	5.33	**************************************	100	90-110		
Duplicate (B23J330-DUP1)	Source:	23J0804	-01 Pre	pared:	10/25/23 08:	04 Analvze	d: 10/26/2	23 13:56		
Mercury	ND		0.100	ug/L		ND	,,			20
Matrix Spike (B23J330-MS1)	Source:	23J0804	-01 Pre	pared: 1	10/25/23 08:	04 Analyze	d: 10/26/2	23 13:58		
Mercury	5.04		0.100	ug/L	5.33	ND ND	94.6	70-130		





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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J330 - EPA 245.1										
Matrix Spike Dup (B23J330-MSD1		23J0804-0			10/25/23 08			23 14:01		
Mercury	5.08		0.100	ug/L	5.33	ND	95.3	70-130	0.785	20
Batch: B23J438 - EPA 200.7	,									
Blank (B23J438-BLK1)			Pre	enared: 1	0/30/23 07:	45 Analyze	d: 10/31/	23 12:37		
Aluminum	ND		100	ug/L	.0,50,25 07	. 15 7 mary 20	10,51,	LO ILIO?		
Antimony	ND		100	ug/L						
Arsenic	ND		100	ug/L						
Barium	ND		100	ug/L						
Beryllium	ND		20.0	ug/L						
Cadmium	ND		20.0	ug/L						
Chromium	ND		100	ug/L						
Copper	ND		100	ug/L						
Lead	ND		100	ug/L						
Nickel	ND		100	ug/L						
Selenium	ND		100	ug/L						
Silver	ND		20.0	ug/L						
Thallium	ND		200	ug/L						
Vanadium	ND		100	ug/L						
Zinc	ND		100	ug/L						15
LCS (B23J438-BS1)			Pre	pared: 1	0/30/23 07:	45 Analyze	d: 10/31/2	23 12:34		
Aluminum	1930		100	ug/L	2000		96.6	85-115		
Antimony	1920		100	ug/L	2000		96.2	85-115		
Arsenic	1880		100	ug/L	2000		94.1	85-115		
Barium	1930		100	ug/L	2000		96.5	85-115		
Beryllium	380		20.0	ug/L	400		95.1	85-115		
Cadmium	378		20.0	ug/L	400		94.6	85-115		
Chromium	1940		100	ug/L	2000		96.8	85-115		
Copper	1930		100	ug/L	2000		96.6	85-115		
Lead	1920		100	ug/L	2000		95.8	85-115		
Nickel	1920		100	ug/L	2000		95.9	85-115		
Selenium	1930		100	ug/L	2000		96.6	85-115		
Silver	388		20.0	ug/L	400		96.9	85-115		
Thallium	1970		200	ug/L	2000		98.4	85-115		
Vanadium	1960		100	ug/L	2000		97.8	85-115		
Zinc	1890		100	ug/L	2000		94.5	85-115		





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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J438 - EPA 200	7.7 (Contin	nued)								
Duplicate (B23J438-DUP1)	Source	23J1110-02	Pre	epared: 1	0/30/23 07	:45 Analyz	ed: 10/31/	23 12:44		
Aluminum	2540		100	ug/L		2550			0.126	20
Antimony	ND		100	ug/L		ND				20
Arsenic	ND		100	ug/L		ND				20
Barium	161		100	ug/L		162			0.584	20
Beryllium	ND		20.0	ug/L		ND				20
Cadmium	ND		20.0	ug/L		ND				20
Chromium	17.2 J		100	ug/L		16.5			4.37	20
Copper	48.9 J		100	ug/L		49.0			0.172	20
Lead	ND		100	ug/L		ND				20
Nickel	ND		100	ug/L		ND				20
Selenium	ND		100	ug/L		ND				20
Silver	ND		20.0	ug/L		ND				20
Thallium	ND		200	ug/L		ND				20
Vanadium	ND		100	ug/L		ND				20
Zinc	252		100	ug/L		252			0.128	20
Matrix Spike (B23J438-MS1)	Source:	23J1110-02	Pre	epared: 10	0/30/23 07	:45 Analyze	ed: 10/31/2	23 12:47		
Aluminum	5140		100	ug/L	2000	2550	130	70-130		
Antimony	1890		100	ug/L	2000	ND	94.6	70-130		
Arsenic	1930		100	ug/L	2000	ND	96.3	70-130		
Barium	2010		100	ug/L	2000	162	92.2	70-130		
Beryllium	377		20.0	ug/L	400	ND	94.3	70-130		
Cadmium	369		20.0	ug/L	400	ND	92.2	70-130		
Chromium	1880		100	ug/L	2000	16.5	93.0	70-130		
Copper	1890		100	ug/L	2000	49.0	92.1	70-130		
Lead	1860		100	ug/L	2000	ND	92.8	70-130		
Nickel	1860		100	ug/L	2000	ND	92.8	70-130		
Selenium	1920		100	ug/L	2000	ND	95.9	70-130		
Silver	377		20.0	ug/L	400	ND	94.2	70-130		
Thallium	1870		200	ug/L	2000	ND	93.6	70-130		
Vanadium	1930		100	ug/L	2000	ND	96.4	70-130		
Zinc	2100		100	ug/L	2000	252	92.4	70-130		





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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J438 - EPA 200.7	(Contin	nued)								
Matrix Spike Dup (B23J438-MSD1)	Source	23J1110-0	2 Pre	epared: 1	0/30/23 07	:45 Analyz	ed: 10/31/	23 12:50		
Aluminum	5140		100	ug/L	2000	2550	130	70-130	0.0751	20
Antimony	1910		100	ug/L	2000	ND	95.4	70-130	0.822	20
Arsenic	1950		100	ug/L	2000	ND	97.6	70-130	1.36	20
Barium	2000		100	ug/L	2000	162	92.1	70-130	0.0334	20
Beryllium	378		20.0	ug/L	400	ND	94.5	70-130	0.154	20
Cadmium	368		20.0	ug/L	400	ND	92.0	70-130	0.216	20
Chromium	1870		100	ug/L	2000	16.5	92.8	70-130	0.312	20
Copper	1920		100	ug/L	2000	49.0	93.8	70-130	1.78	20
Lead	1850		100	ug/L	2000	ND	92.7	70-130	0.114	20
Nickel	1860		100	ug/L	2000	ND	92.8	70-130	0.00485	20
Selenium	1890		100	ug/L	2000	ND	94.5	70-130	1.55	20
Silver	375		20.0	ug/L	400	ND	93.8	70-130	0.495	20
Thallium	1850		200	ug/L	2000	ND	92.5	70-130	1.18	20
Vanadium	1930		100	ug/L	2000	ND	96.3	70-130	0.0436	20
Zinc	2100		100	ug/L	2000	252	92.6	70-130	0.177	20





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Quality Control (Continued)

Wet Chemistry

Analyte	Result	Qual	RL	Units	Spike Level	Source Resu		REC	%REC Limits	RPD	RPD Limit
Batch: B23J136 - SM 2540 E), E		De	enarad:	10/10/23 12:	.02 45	alvzodi 1	0/10/	22 14-15		
Total Suspended Solids	ND		2.0	mg/L	10/10/23 12:	.UZ AN	aiyzeu: 1	.0/10/	23 14:15		
LCS (B23J136-BS1) Total Suspended Solids	19.4		Pr	epared: mg/L	10/10/23 12: 20.0	:02 Ana	rendin management. This	0/10/ 7.0	23 14:15 85-115		
Duplicate (B23J136-DUP1) Total Suspended Solids	Source:	23J0405-02	Pr 2.0	epared: mg/L	10/10/23 12:	02 Ana 2.0		0/10/	23 14:15		10
Duplicate (B23J136-DUP2) Total Suspended Solids	Source: 2.9	23J0336-02	Pr 2.0	epared: mg/L	10/10/23 12:	02 Ana 3.0		0/10/	23 14:15	3.39	10
Batch: B23J151 - SM 5210 B											
Blank (B23J151-BLK1)			Pro	epared:	10/11/23 08:	53 Ana	alvzed: 1	0/16/2	23 08:56		
Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L	,,		,	-, = 0, •			9
Blank (B23J151-BLK2)			Pre	epared:	10/11/23 08:	53 Ana	alvzed: 10	0/16/2	23 08:56		
Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L	* ************************************		,				
Blank (B23J151-BLK3)			Pre	epared: 1	10/11/23 08:	53 Ana	alyzed: 10	0/16/2	3 08:56		
Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L							
Blank (B23J151-BLK4)	ND			*55	10/11/23 08:5	53 Ana	lyzed: 10	0/16/2	3 08:56		
Biochemical Oxygen Demand, Carbonaceous	ND		2.00	mg/L							
LCS (B23J151-BS1)			Pre	pared: 1	0/11/23 08:5	53 Ana	lyzed: 10	0/16/2	3 09:04		****************
Biochemical Oxygen Demand, Carbonaceous	205			mg/L	198		10	04	85-115		





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Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J151 - SM 5210	0 B (Contil	nued)								
LCS (B23J151-BS2)			Pr	epared: 1	10/11/23 08	:53 Analvz	ed: 10/16/	23 09:04		
Biochemical Oxygen Demand, Carbonaceous	214			mg/L	198	,	108	85-115		
LCS (B23J151-BS3)			Pro	epared: 1	10/11/23 08	:53 Analyz	ed: 10/16/	23 09:04		
Biochemical Oxygen Demand, Carbonaceous	205			mg/L	198		104	85-115		
LCS (B23J151-BS4)	*		Pre	epared: 1	10/11/23 08	:53 Analyz	ed: 10/16/	23 09:04		
Biochemical Oxygen Demand, Carbonaceous	203			mg/L	198	•	103	85-115		
T										
Batch: B23J169 - EPA 300 Blank (B23J169-BLK1)				•	.0/11/23 13	:21 Analyze	ed: 10/11/	23 13:21		
Blank (B23J169-BLK1) Chloride	ND		0.400	mg/L	.0/11/23 13	:21 Analyzo	ed: 10/11/	23 13:21		
Blank (B23J169-BLK1)				•	.0/11/23 13	:21 Analyze	ed: 10/11/	23 13:21		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate	ND ND		0.400 0.100 0.400	mg/L mg/L mg/L						
Blank (B23J169-BLK1) Chloride Nitrate as N	ND ND ND		0.400 0.100 0.400	mg/L mg/L mg/L epared: 1	0/11/23 13:		ed: 10/11/2	23 13:05		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1)	ND ND		0.400 0.100 0.400	mg/L mg/L mg/L epared: 1 mg/L						
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1) Chloride	ND ND ND		0.400 0.100 0.400	mg/L mg/L mg/L epared: 1	0/11/23 13: 7.50		ed: 10/11/2 97.6	23 13:05 90-110		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1) Chloride Nitrate as N	ND ND ND 7.32 4.83 7.27	23J0231-0	0.400 0.100 0.400 Pre	mg/L mg/L mg/L epared: 1 mg/L mg/L mg/L	0/11/23 13: 7.50 5.00	:05 Analyze	ed: 10/11/7 97.6 96.6 96.9	23 13:05 90-110 90-110 90-110		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1) Chloride Nitrate as N Sulfate	ND ND ND 7.32 4.83 7.27	23J0231-0	0.400 0.100 0.400 Pre	mg/L mg/L mg/L epared: 1 mg/L mg/L mg/L	0/11/23 13: 7.50 5.00 7.50	:05 Analyze	ed: 10/11/7 97.6 96.6 96.9	23 13:05 90-110 90-110 90-110		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1) Chloride Nitrate as N Sulfate Matrix Spike (B23J169-MS1)	ND ND 7.32 4.83 7.27 Source: 5.76		0.400 0.100 0.400 Pre 2 Pre 0.105	mg/L mg/L mg/L epared: 1 mg/L mg/L mg/L epared: 1 mg/L	0/11/23 13: 7.50 5.00 7.50 0/11/23 15: 5.26	38 Analyze 0.768	ed: 10/11/2 97.6 96.6 96.9 ed: 10/11/2 94.9	23 13:05 90-110 90-110 90-110 23 15:38 80-120		
Blank (B23J169-BLK1) Chloride Nitrate as N Sulfate LCS (B23J169-BS1) Chloride Nitrate as N Sulfate Matrix Spike (B23J169-MS1) Nitrate as N	ND ND 7.32 4.83 7.27 Source: 5.76	23J0231-0 23J0231-0	0.400 0.100 0.400 Pre 2 Pre 0.105	mg/L mg/L mg/L epared: 1 mg/L mg/L mg/L epared: 1 mg/L	0/11/23 13: 7.50 5.00 7.50 0/11/23 15: 5.26	38 Analyze 0.768	ed: 10/11/2 97.6 96.6 96.9 ed: 10/11/2 94.9	23 13:05 90-110 90-110 90-110 23 15:38 80-120		





Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spik Leve		ource Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J169 - EPA 300.0 Matrix Spike Dup (B23J169-MSD1)			Р	repared:	10/11/23	3 15:54	Analyzed	: 10/11/	23 15:54		
Nitrate as N	5.56		.105	The second secon	5.26		0.768	91.0	80-120	3.59	15
Matrix Spike Dup (B23J169-MSD2)	Source:	23J0231-02F	R P	repared:	10/11/23	16:24	Analyzed	: 10/11/	23 16:24		
Chloride Sulfate	217 E 120		4.21 4.21		78.9 78.9	9.	136 37.5	103 105	80-120 80-120	0.180 0.351	15 15
Batch: B23J170 - EPA 350.1 Blank (B23J170-BLK1) Ammonia as N	ND	0.0	Pi 0500		10/12/23	13:36	Analyzed	: 10/12/	23 13:36		
LCS (B23J170-BS1) Ammonia as N	1.34		Pi	repared: mg/L	10/12/23 1.30		Analyzed	10/12/	23 13:38 90-110		
Duplicate (B23J170-DUP1) Ammonia as N	Source: 0.0242	23J0435-02 0.0	Pi)500		10/12/23	13:41	Analyzed: ND	10/12/2	23 13:41		10
Duplicate (B23J170-DUP2) Ammonia as N	Source:	23J0436-02 0.0	Pr 0500		10/12/23	14:25	Analyzed: ND	10/12/2	23 14:25	8	10
Matrix Spike (B23J170-MS1) Ammonia as N	Source: 0.976	23J0435-02 0.0	Pr 0505	repared: mg/L	10/12/23 1.01		Analyzed: ND	10/12/2 96.6	23 13:43 90-110		
Matrix Spike (B23J170-MS2) Ammonia as N	Source: 1.07	23J0436-02 0.0	Pr 505	epared: mg/L	10/12/23 1.01		Analyzed: ND	10/12/2 106	23 14:27 90-110		



Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J174 - SM 2540	C									
Blank (B23J174-BLK1)			Pr	epared:	10/12/23 13:	38 Analyz	ed: 10/13	/23 10:52		
Total Dissolved Solids	ND		5.0	mg/L	8 8		25 27	70		
LCS (B23J174-BS1)			Pr	epared:	10/12/23 13::	38 Analyz	ed: 10/13	/23 10:52		
Total Dissolved Solids	153			mg/L	150		102	85-115		
Duplicate (B23J174-DUP1)	Source:	23J0230-04	l Pr	epared:	10/12/23 13:3	88 Analyz	ed: 10/13	/23 10:52	2	
Total Dissolved Solids	578		5.0	mg/L		589			1.89	10
Blank (B23J175-BLK1) Cyanide, Amenable Cyanide, Total	ND ND		2.00 10.0	ug/L ug/L	10/12/23 11:0	- Analyz	10/12/	,23 15,20		
LCS (B23J175-BS1)			Pre	enared:	10/12/23 11:0	11 Analyz	ed: 10/12	/23 15:33		
Cyanide, Amenable	57.4		// = 3/3/2/3	ug/L	50.0		115	82-132		
Cyanide, Total	104			ug/L	100		104	84-116		
Duplicate (B23J175-DUP1)	Source:	23J0230-03	Pre	epared:	10/12/23 11:0	1 Analyz	ed: 10/12/	/23 16:08		
Cyanide, Total	5.60 J		10.0	ug/L	00 mm • massace • • massace • 100 mm • massace • 1	6.29	Committee of the Commit		11.6	47
Cyanide, Amenable	4.01		2.00	ug/L		4.37			8.57	15
Matrix Spike (B23J175-MS1)	Source:	23J0230-03	Pre	epared: 1	10/12/23 11:0	1 Analyz	ed: 10/12/	23 16:13		
Cyanide, Total	58.7		10.0	ug/L	50.0	6.29	105	64-136		
Cyanide, Amenable	55.0		2.00	ug/L	50.0	4.37	101	82-130		



Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	•	ource lesult	%REC	%REC Limits	RPD	RPD Limit
Batch: B23J199 - SM 2320	7										
Blank (B23J199-BLK1)			Pr	epared:	10/13/23	12:34	Analyzed	l: 10/13/	23 12:34		
Total Alkalinity as CaCO3	ND		20.0	mg/L			53 				
Blank (B23J199-BLK2)			Pr	epared:	10/13/23	13:31	Analyzed	l: 10/13/	23 13:31		
Total Alkalinity as CaCO3	ND		20.0	mg/L							
LCS (B23J199-BS1)			Pr	epared:	10/13/23	12:26	Analyzed	: 10/13/	23 12:26		
Total Alkalinity as CaCO3	142			mg/L	150			94.5	90-110		
LCS (B23J199-BS2)			Pr	epared:	10/13/23	13:24	Analyzed	: 10/13/	23 13:24		
Total Alkalinity as CaCO3	143			mg/L	150			95.2	90-110		
Duplicate (B23J199-DUP1)	Source:	23J0230-04	4 Pro	epared:	10/13/23	12:50	Analyzed	: 10/13/	23 12:50		
Total Alkalinity as CaCO3	117		20.0	mg/L			116	2,424 8894		0.858	10
Reference (B23J199-SRM1)			Pre	epared:	10/13/23	12:36	Analyzed	: 10/13/	23 12:36		
Total Alkalinity as CaCO3	47.6	3697		mg/L	50.0		OC YOURSESSEE	95.2	0-200		
Batch: B23J215 - SM 4500	-N ORG B										
Blank (B23J215-BLK1)	1000				10/16/23	11:00	Analyzed	: 10/17/	23 11:00		
Total Kjeldahl Nitrogen	ND ND		0.500	mg/L							
LCS (B23J215-BS1)			Pre	epared:	10/16/23 1	1:00	Analyzed	: 10/17/2	23 11:00		
Total Kjeldahl Nitrogen	2.94		0.500	mg/L	3.00			98.0	85-115		
Duplicate (B23J215-DUP1)	Source:	23J0230-04	₽re	epared:	10/16/23 1	1:00	Analyzed:	10/17/2	23 11:00		
Total Kjeldahl Nitrogen	2.08		0.500	mg/L			2.02			2.93	20



Northwest 5423 Mangum Rd

Houston, TX 77091

Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Quality Control (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result		%REC Limits	RPD	RPD Limit
Batch: B23J215 - SM 4500-N	V ORG B	(Continue	ed)							
Matrix Spike (B23J215-MS1)	Source	23J0230-04	Pr	epared:	10/16/23 11:0	00 Ana	lyzed: 10/17,	23 11:00		
Total Kjeldahl Nitrogen	4.65		0.500	mg/L	3.00	2.02	87.7	70-130		
Reference (B23J215-SRM1)			Pr	epared:	10/16/23 11:0	00 Ana	lyzed: 10/17/	23 11:00		
Total Kjeldahl Nitrogen	2.95			mg/L			98.3	0-200		
Batch: B23J414 - EPA 218.6 Blank (B23J414-BLK1) Chromium Hexavalent	ND		Pr 1.00	epared: ug/L	10/27/23 07:4	5 Ana	lyzed: 10/27/	23 09:31		
LCS (B23J414-BS1)			Pr	enared:	10/27/23 07:4	5 Ana	lyzed: 10/27/	23 09:20		
Chromium Hexavalent	5.19			ug/L	5.00	o , ma	104	90-110		
Matrix Spike (B23J414-MS1)	Source:	23J0231-02	Pr	epared:	10/27/23 07:4	5 Anal	lyzed: 10/27/	23 11:04		
Chromium Hexavalent	4.65		1.01	ug/L	5.03	ND	92.4	80-120		To the same and
Matrix Spike Dup (B23J414-MSD1)	Source:	23J0231-02	Pr	epared:	10/27/23 07:4	5 Anal	yzed: 10/27/	23 11:15		
Chromium Hexavalent	4.94		1.01	ug/L	5.03	ND	98.3	80-120	6.10	20



Definition

Northwest

5423 Mangum Rd Houston, TX 77091 Project: NW Metals, CN + Permit

Project Number: 10495-076

Project Manager: Regulatory Compliance

Reported:

11/09/2023 07:29

Notes and Definitions

Item	Definition
Е	The reported result is above the calibration range for this analysis. Results should be considered ESTIMATED.
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
DL	Detection Limit
RL	Reporting Limit
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Company Name: Northwest Pollutants Monitoring Addre Permit

1000 ELECTRICA STANDARD STREET STANDARD		•	
Address:	5423 Mangum Rd Houston, TX 77091		
Permit Number:	10495-076	\	
	Composite Info	S. C.	
Sample ID:	2330230-03	23J0230-04	
Split Samples:	Yes (No	Yes (No	
Number of bottles:	12345_	123457	
Sample Volume:	200 mL	800 mL	
Sample Interval;	90 min	12 sovenin	
Autosampler secured/locked:	ked: Yes No N/A	Yes No N/A	
Comp Temp(°C)	5,5	2,7	

TRC ID:

	크효
Sampler:	Permit Requirement Special Report Other
[%]	EEE

Chesterio Porstay Page 1062 Throng of mple Reason

2330230

[] Compliance Verification
[] POTW Permit Application NW Metals, CN + Permit

Field Test Traceability Info

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ND - No Discharge IQ - Insufficient Quantity CC - Company Closed EF - Equipment Failure Other (write in description)

Paper Meter Eff Sampler temp(°C) Inf Sampler temp(°C) pH Measured By: Temperature ID: pH ID:

*Matrix: W - Water, S - Solid, C - Chemical

Sample #	# Cont	# Cont Grab/ Matrix*	Matrix*	Location	Begin (End) Sampled Sampled Date/Time Date/Time	(End) Sampled Date/Time	Container with Preservation	Test Method	Field Test	Comments	
23J0230-01	-	CMan	×	SP 1_CompMan			(1) 1 LAmber Glass, PTFE Lined Cap Cool <6°C, NaOH to pH Cyanide OIA 1677 >10, NaAsO2 if TRC present	Cyanide D7511 (A)			10
23,0230-02	ю	υ	8	SP 1_Comp	00:9	8	(1) 1 L PE or G Cool <6°C, (NH4)2SO4 buffer, NaOH to pH 9.3-9.7	Chromium, Hexavalent [A] 218.6			T
					6/4/13 10/0/2	10/0/11	(2) 500 mL PE or Glass Cool <6°C, HNO3 to pH <2	Metals WWTP Inf [B]			
23J0230-03	13	СМап	8	SP 2_CompMan	6:20	2230 90F	22.30 (1) 1 L Amber Glass, PTFE Lined Cap Cool <6°C, NaOH to pH Cyanide OIA 1677 9 LF, 210, NaAsO2 if TRC present	4			T
\neg					10/04/15	16/16/23	(12) 40 mL Glass, PTFE lined septum Cool <6°C	Mercury 1631E [B]			
23,10230-04	7	c	>	200	2008	0	(1) 1 Gallon Plastic Cool <6°C	TSS 2540 D [C]			T
)	3	SP 2_Comp	jo -	8	(2) 1 L PE or Glass Cool <6°C	TDS 2540 C [B])
					10/1/1			Alkalinity 2320 B [B]			
					3 5/	~		CBOD 5210 B [D]			
						(~10:10.	(2) 1 L PE or Glass Cool <6°C, H2SO4 to pH <2	NH3 as N 350.1 [F]			
								TKN 4500-NH3 D [G]			
							(1) 500 mL PE Cool <6°C	Sulfate 300.0 [E]			
	21						E	Nitrate as N 300.0 [E]			
								Chloride 300.0 [E]			
							(1) 500 mL PE Cool <6°C, H2SO4 to pH <2	Phosphorus 200.7 [A]			0

-1127 A.B. 10/10/2	STATE OF THE PROPERTY OF THE P	, Date/Time	Location	Received by: (Signature)	, Date/Time	Location
Date/Time Incestion Date/Time Date/T	The state of	10/10/13 -1127		A A A	-	+5)
Necelved by: (Signature)	र्र्शाnquished by: (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time	Constion

Northwest Pollutants Monitoring 5423 Mangum Rd Houston, TX 77091 10495-076 Company Name: Permit Number: Address:



ample Reason	Sampler: UVS Sample Reason
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Permit Requirement Special Report Other

NW Metals, CN + Permi

[] Compliance Verification [] POTW Permit Application



Page 2 of 2



Comments

	Field Test	
	Test Method	Mercury 1631E [A]
	Container with Preservation	2.03 (1) 40 mL Glass, PTFE lined septum Cool <6°C $ 69 23$
	(End) Sampled Jate/Time	रिहेट १०१८
	Begin (End) Sampled Sampled Date/Time Date/Time	
	Location	Field Blank
	Matrix*	×
The second second second	Grab/ Comp	O
ACCOUNTS OF THE PARTY OF	# Cont	-
CONTRACTOR AND	Sample # Cont Grab/ Matrix* Lidentification	23J0230-05

COMPOSESSED AF TO COMPOSITION OF THE PARTIES. Correspon IN THE MALE COMPOSIDED AT AMENSES

COUNTRY BY # 4 PAYES GABS, 6:59, 12:03, 1720, 1220, 30

COLLECTION PS & 4 PANTS WARS, 6,559, 17:03, 17:00, 22:30

* COUNTY BY PAYS GRAB 7:40, 12:18 1728 2241

(oignature)	, Date/Ime	Location	Received by: (Signature)	Date/Time	SEC. NESCONDENS IN SEC.
•	1			Catch IIIIC	Location
1	10/16/27 1/0/		4	-	1
10,000	10011		1	1211 0000101	7
. (Signature)	Date/Time	Location	Received by: (Signature)	Date/Time)
			(cignatal) (care and a second	Date/ IIIId	Location

Client Sample Results

Client: City of Houston

Project/Site: City of Houston Analytical Testing

Job ID: 860-56021-1

Client Sample ID: 5334832-008

Date Collected: 08/25/23 08:00 Date Received: 08/25/23 15:21 Lab Sample ID: 860-56021-1

Matrix: Water

Method: EPA-01 632 - Carbamate an	d Urea Pes	ticides (HPI	LC)						
Analyte	Result	Qualifier	RL	MDL	Unit	0	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85		5.00	1.85	ug/L		08/28/23 15:40	08/31/23 10:06	1
Diuron	<0.0514		0.0900	0.0514	ug/L		08/28/23 15:40	08/31/23 10:06	1

Lab Sample ID: 860-56021-2

Matrix: Water

Client Sample ID: 5334832-009 Date Collected: 08/25/23 08:00 Date Received: 08/25/23 15:21

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
2,4-D	<0.0000539		0.000200	0.0000539	mg/L		08/30/23 18:03	08/31/23 20:36	
2,4,5-TP	<0.0000422		0,000200	0.0000422	mg/L		08/30/23 18:03	08/31/23 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacelic acid	97		45 - 150				08/30/23 18:03	08/31/23 20:36	1



Industrial Wastewater Service

Analysis Request and Chain of Custody

Company Name: Northwest 5423 Mangum Rd, Houston, TX 77091

Location: EFFLUENT

The second secon			-			
Sample No. 5334832	Permit No. 5008			tfall: 2	Scheduled Date:	8/25/2023
Sample Type: COMP	/		Sample Ma	trix: Liquid		
SAMPLE COLLECTED V	Yes No If No:	No Discha Company	orge	Quantity Not Sufficient _ Equipment Fallure: _		
COMPOSITE TIME/DATE:	SAMPLE DETAILS: Tem	p:5.3	GRAB TIME/D	DATE:	FIELD TESTS:	
Begin: $2:00$	Split Sample:Yes _1	No	Time::_			
End: 8:00	# of Bottles: 1 2 3 4 5	_	Date:/_	× 110	Paper, Lot #	
Begin Date: 08/24/23	Sample Volume: 80	_ ml	TRC	, Lot #84032C	Meter, S/N	
End Date: OR RSITE	Sample Interval: From	,	Temperature _	°C, S/N		
Autosampler Secured/Locked	d? <u> </u>	_NA S	sampler (Print)	: DOME	FRANE	U
Comments:						
* Bottle #	Tests/Method	Analysis R	tequested	Sample Size/Container	Preservation	# of containers
5334832-008 Carbaryl (I	EPA 632); Diuron (EPA 632)			1 L Amber Glass, PTFE lined cap	Cool <6°C	2
5334832-009 Herbicides	(EPA 615 or SM 6640B)			1 L Amber Glass, PTFE lined cap	Cool <6°C	2
LIMS Comments						
CHAIN OF CUSTODY						
Lab Delivered To:	COH Wastewater Lab	X_c	ity Contract Lat	o: Eurofins Xenco		
Seals Intact: Yes	No 568 IR Thermomete	er S/N # 27	910254	S/N # 29650075	Temp°C II	nitial
pH Strip Manufacturer://		Lot	#:	Initial:		
Relinquished By:	- True	Date:	7/25/23	Time: L. 4) <u>0</u>	
Received By:	<u>></u>	Date: _\frac{\frac{1}{2}}{2}	25,23	Time: 44 .0	0	
Relinquished By:		Date:	_!!	Time:		
Received By:	Western Committee and American State Committee Committee	Date:	_//	Time:		
Relinquished By:	Received By:			Date:// Tir	ne:	101

^{*} Deliverd to Lab if Box is Checked

LABORATORY TEST RESULTS

Job ID: 23082774

Date 9/1/2023

Client Name:

Houston, City of

Attn: James Nguyen

Project Name:

Client Sample ID: Date Collected:

5334832

Time Collected:

08/25/23 08:00

Job Sample ID:

23082774.15

Sample Matrix

Water

% Moisture

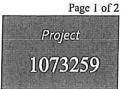
Other Inform	00.00					% Mois	iture			
Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit	Q	Date Time	Analyst
EPA 300.0	Anions									
	Fluoride	0.348	mg/L	1.00	0.02	0.100			08/25/23 21:39	KPE
	Nitrate-N	2.94	mg/L	1.00	0.01	0.100			08/25/23 21:39	KPE
SM 3500Cr B										
	Chromium, Hexavalent	<0.0005	mg/L	1	0,0005	0.00100		U	08/25/23 17:00	RRA
SM 3500Cr B										
	Chromium, Trivalent ²	<0.0005	mg/L	1	0.0005	0.00100		U	08/28/23 17:40	RRA
PA 200.8	Metals by ICP/MS									
	Aluminum	0.0310	mg/L	1	0.00100	0.00100			08/28/23 14:19	YWZ
	Antimony	0.00112	mg/L	1	0.00031	0.00050			08/28/23 14:19	YWZ
	Arsenic	0.00154	mg/L	1	0.00003	0.00025			08/28/23 14:19	YWZ
	Barium	0.0555	mg/L	1	0.00013	0.00050			08/28/23 14:19	YWZ
	Beryllium	<0.00009	mg/L	1	0.00009	0.00025		U	08/28/23 14:19	YWZ
	Cadmium	< 0.00006	mg/L	1	0.00006	0.00025		U	08/28/23 14:19	YWZ
	Chromium	0.00048	mg/L	1	0.00003	0.00025			08/28/23 14:19	YWZ
	Copper	0.00390	mg/L	1	0.00009	0.00050			08/28/23 14:19	YWZ
	Lead	0.00026	mg/L	1	0.00019	0.00025			08/28/23 14:19	YWZ
	Nickel	0.00235	mg/L	1	0.00025	0.00025			08/28/23 14:19	YWZ
	Selenium	<0.00060	mg/L	1	0.00060	0.00100		U	08/28/23 14:19	YWZ
	Silver	<0.00006	mg/L	1	0.00006	0.00050		U	08/28/23 14:19	YWZ
	Thallium	<0.00003	mg/L	1	0.00003	0.00025		U	08/28/23 14:19	YWZ
	Vanadium	0.00312	mg/L	1	0.00006	0.00025			08/28/23 14:19	YWZ
	Zinc	0.0399	mg/L	1	0.00190	0.00200			08/28/23 14:19	YWZ
STM D7065- l										
	Bisphenol A ²	<5.00	ug/L	1.00		5.00	9	U	09/01/23 13:40	MSH
	Nonyl Phenol ²	<5.00	ug/L	1.00	5.00	5.00		U	08/28/23 17:26	MSH
	Terphenyl-d14(surr)	66.5	%	1.00		18-137			08/28/23 17:26	MSH

2600 Dudley Rd. Kilgore, Texas 75662 24 Waterway Avenue, Suite 375 The Woodlands, TX 77380 Office: 903-984-0551 * Fax: 903-984-5914



ABL2-G

A & B Labs Shantall Carpenter 10100 East Freeway Suite 100 Houston, TX 77029



Printed:

09/14/2023

Split

RESULTS

			Sample	e Result	S						
2226285 5334832-004 Non-Potable Water	Collected by:	Client	A & B	Lahs				PO:	Received:	08/2 ⁻ 50483-23	9/2023
	250	5/2023		08:00:00				70.		30463-23	002774
EPA 8321B		Prepared:	1079771	08/31/20	23	14:20:00	Analyzea	1 1080192	09/03/2023	03:29:00	BRU
Parameter		Units RL		Flags		CAS		Bottle			
Hexachlorophene		<0.00503	recorded a distance		.00503	}		ersellassaken a	70-30-4	military statement begins being	03
William Co. Co.	The state of the state of	S	ample P	reparati	on 						
2226285 5334832-004									Received:	08/29	/2023
	08/25	/2023						jan.		50483-230	82774
		Prepared:		08/30/202	3	09:31:28	Calculated	<u> </u>	08/30/2023	09:31:28	CAL
Environmental Fee (per Project)		Verified									
EPA 604.1		Prepared:	1079771	08/31/202	3	14:20:00	Analyzed	1079771	08/31/2023	14:20:00	CED
Hexachlorophene Extraction		5/995	ml								02
EPA 8321B		Prepared:	1079771	08/31/2023		14:20:00	Analyzed	1080192	09/03/2023	03:29:00	BRU
Hexachlorophene Expansion		Entered						11	70-30-4		03



Report Page 3 of 5



Analysis Request and Chain of Custody

Company Name: Northwest

* Deliverd to Lab if Box is Checked

5423 Mangum Rd, Houston, TX 77091

Location: EFFLUENT Sample No. 5334832 Permit No. 5008 Outfall: 2 Scheduled Date: 8/25/2023 Sample Type: COMP Sample Matrix: Liquid SAMPLE COLLECTED _____ Yes ____ No If No: No Discharge Quantity Not Sufficient Company Closed Equipment Failure: COMPOSITE TIME/DATE: SAMPLE DETAILS: Temp: 4, GRAB TIME/DATE: FIELD TESTS: Begin: 8 : 00 Split Sample: Yes No Time: : pH: ____,__ # of Bottles: 1 2 3 4 5 ____ Date: / / Paper, Lot # Begin Date: 08/ Sample Volume: SOO ml TRC , Lot #84032C Meter, S/N End Date: (Sample Interval: Lowmin. Temperature No X NA Autosampler Secured/Locked? Sampler (Print): Comments: # of **Analysis Requested** Bottle # Tests/Method Sample Size/Container Preservation containers Bisphenol A (ASTM D7065-11 or 625); Nonylphenol (1625 or ASTM 5334832-001 Cool <6°C, H2SO4 1 L Amber Glass, PTFE lined cap to pH <2 Chromium, Trivalent (Cr3) (CALCULATE) 5334832-002 0 Chromium, Hexavalent (Cr+6) (218.6 or 3500 Cr-B) 5334832-003 1 L Polyethylene or Cool <6°C, (NH4)2SO4 buf Glass fer, NaOH to pH 9.3-9,7 Hexachlorophene (EPA 604.1) 5334832-004 1 L Amber Glass, Cool <6°C 2 PTFE lined cap Metals POTW Effluent , Vanadium (EPA 200.8) 5334832-005 1 L Polyethylene Cool <6°C, HNO3 to .1 pH <2 Fluoride, Total (F) (EPA 300.0); Nitrate as N (EPA 300.0) 5334832-006 1 L Polyethylene Cool <6°C LIMS Comments **CHAIN OF CUSTODY** X _ City Contract Lab: A&B Lab Delivered To: COH Wastewater Lab Seals Intact: 568 IR Thermometer S/N # 27910254 S/N # 29650075 Yes Temp °C Initial pH Strip Manufacturer: Relinquished By: Time: / 2 Received By: Relinquished By: Date: ___ Time: Received By: Date: / / Time: Relinquished By: __ Date: Received By:

LABORATORY TEST RESULTS

Job ID: 23082774

Date 9/1/2023

Client Name:

Houston, City of

Attn: James Nguyen

Project Name:

5334832

Client Sample ID: Date Collected: Time Collected:

08/24/23 21:50

Job Sample ID:

23082774.14

Sample Matrix

Water

% Moisture

Other Information:

Test Method Parameter/Test Description Result Units DF SDL SQL Reg Limit Q Date Time Analyst EPA 420.4 Phenolics (Total Phenols) <0.0045 Phenols mg/L 0.0045 0.01 U 08/28/23 12:08 KTH 1



Analysis Request and Chain of Custody

Company Name: Northwest 5423 Mangum Rd, Houston, TX 77091

	Location: EF	FLUENT					-			
	Sample No. 5334832 Sample Type: CMA		Permit No. 5008	Outfall: 2 Sample Matrix: Liquid		Sche	eduled Date:	8/25/2023		
	SAMPLE COLLECTED) <u>/.</u> Yes _	No If No:	_ No Disch _ Company	charge Quantity Not Sufficient any Closed Equipment Failure:					
	COMPOSITE TIME/DA	TE: SAME	LE DETAILS: Te	mp:	GRAB TIME/DATE:		FIELD	D TESTS:		
	Begin: U 5; O 4 Split Sample:Yes _ No			Time::		pH:				
	End: $21:50$	# of Bo	illes: 1/2 3 4 5		Date:/_		Pape	er, Lot#		
	Begin Date: 8 134	<u>/ 1013</u> Sa	imple Volume: 🛂	C ml	TRC	. Lot #84032C	Mete	er, S/N		
	End Date: 2 124	<u>110.3</u> Sa	imple Interval: <u>36</u>	<u>∵</u> min.	Temperature _	°C, S	/N			
	Autosampler Secured	/Locked?	_Yes No _	NA	Sampler (Print)	: Raymon	1 Cabane.	eu j (1/0)	velerofen de	
	Comments: Callected as 4 part grate 0504, 1844, 1608, 2150									
lun	* Bottle #	Tests/M	ethod	Analysis	Requested	Sample Size/Co	ntainer (Preservalion	# of containers	
14A	5334832-007 Pt	hendi, Total (EPA 4:	20.1)			1 L Amber G PTFF linad		ol <6°C, H2SO4 to pH <2	1	
	LIMS Comments	J.R.S								
	CHAIN OF CUSTODY	CHAIN OF CUSTODY								
	Lab Delivered To:	col	H Wastewater Lab	<u>x</u> _(City Contract Lal	b: A&B				
	Sedis intact Y	You No	568 IR Thermome	eter S/N # 2	7910254	S/N # 29650075	Tem	р <u>1:4</u> °С п	nitial	
	pH Strip Manufacturer			Lo	t #:	(nitia	ıl:	_		
	Relinquished By:			Date:	8 125 123	Time: _	2.24			
	Received By:	***************************************	mi	_ Date.()	9,25,23	Time:	<u> 224</u>			
	Relinquished By:	Man -	200	Date:	8,25/23	Time:	2.34			
	Received By:	11/2-		Date:	<u> 7331.23</u>	Time:	2.34			
	Rellnquished By:		Received By:	Ette	-	Date: 8 1312	了 Time: _	14.10		
	 Deliverd to Lab if Box 	x is Checked				1				

LABORATORY TEST RESULTS

Job ID: 23101344

Date 10/18/2023

Client Name:

Houston, City of

Attn: James Nguyen

Project Name:

6.5

Client Sample ID: Date Collected:

Time Collected: Other Information: 5337521 10/09/23

12:03

Job Sample ID:

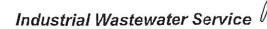
23101344.05

Sample Matrix

Water

% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	SQL	Reg Limit Q	Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extract	ables							
	Oil & Grease	<1.62	mg/L	1.16	1.62	2.90	U	10/13/23 07:10	SG



Analysis Request and Chain of Custody

Company Name: Northwest

5423 Mangum Rd, Houston, TX 77091

Location: EFFLUEN	ľ				
Sample No. 5337521	Permit No. 5008		utfall; 2	Scheduled Date:	10/10/202
Sample Type: Grab			atrix: Liquid		
SAMPLE COLLECTED	Yes No If No: No I	Discharge npany Closed	Quantity Not Sufficient Equipment Failure:	A TOTAL OF THE STATE OF THE STA	
GOMPOSITE TIME/DATE:	SAMPLE DETAILS: Temp:	GRAB TIME	DATE:	FIELD TESTS:	
Begin::	Split Sample: Yes			:	
End:	# of Bottles: 1 2 3 4 5	Date: 1012	<u>9,123</u> [] Paper, Lot #	
Begin Date://	Sample Volume: 1000ml	TRC	_, Lot #84032C	Meter, S/N	
End Date: / /	Sample Interval: O mi		°C, S/N		
Autosampler Secured/Locked	?Yes No △NA		C -500	1 FOINE	u
Comments:					
Bottle #	rests/inethod	ysis Requested	Sample Size/Containe	Preservation	# of containers
5337521-005 Oil and Grea	ase (Total) / HEM (EPA 1664)		1 L Amber Glass, PTFE lined cap	Cool <6°C, H2SO4 to pH <2	1
LIMS Comments					
CHAIN OF CUSTODY					
Lab Delivered To:	COH Wastewater Lab	X City Contract La	ab: A&B		
Seals Intact:Yes	No 568 IR Thermometer S/N	# 27910254	S/N # 29650075	Temp 3.() °C Ir	itial J 6
oH Strip Manufacturer:	<u> </u>	Lot #:	Initial:	IRS	
Relinquished By:	Date Date	e: 10, [], 23	Time: 9.	10	
Received By:		nte: 10 , 11 , 2;		40	
Relinquished By:	Date	e: <u>10 11 /23</u>	Time: <u>15.7</u>	.1_	
Received By:	Date	e: 10 / 11 / 23	Time: 15 . 2	<u>.1</u>	
Relinquished By:	Received By:		Date:/ Tir	ne:	
Deliverd to Lab if Box is Ched	cked				

City of Houston | Houston Public Works | Houston Water

Attachment 8

Facility Operators

Domestic Technical Report 1.0, Section 8

TPDES Permit Number 10495-076 Northwest

Facility Operations Chain-of-Command

		License Class	License Number	Expiration
Deputy Assistant Director:	Raymond Ramdeo			
Operations Manager:	Tomas Martinez	Α	WW0015642	7/31/2026
Assistant Operations Manager:	Rondrick Wallace	Α	WW0054457	11/25/2024
Operations Section Chief:	Phillip Cain	Α	WW0047091	3/6/2025
Plant Operator Supervisor:	Ricky Wolfe	В	WW0031091	7/13/2024
Tech II:	Shenell Bingham Edward Hardy Dale Singletary	В В В	WW0056474 WW0072221 WW0067930	8/29/2025 4/3/2026 8/20/2024

City of Houston | Houston Public Works | Houston Water

Attachment 9

WET Test Results

Domestic Worksheet 5.0, Section 1. Domestic Worksheet 5.0, Section 3.

10495-076

TX0063011

Test Initiation Date	Species	Lethal Endpoint	Sublethal Endpoint
5/21/2019	Ceriodaphnia dubia	>100	>100
5/21/2019	Pimephales promelas	>100	>100
8/6/2019	Ceriodaphnia dubia	>100	>100
11/5/2019	Ceriodaphnia dubia	>100	>100
2/4/2020	Ceriodaphnia dubia	>100	>100
2/4/2020	Pimephales promelas	>100	>100
5/19/2020	Ceriodaphnia dubia	>100	>100
8/25/2020	Ceriodaphnia dubia	>100	>100
11/10/2020	Ceriodaphnia dubia	>100	>100
1/12/2021	Ceriodaphnia dubia	>100	>100
1/12/2021	Pimephales promelas	>100	>100
5/4/2021	Ceriodaphnia dubia	>100	>100
8/24/2021	Ceriodaphnia dubia	>100	>100
8/24/2021	Pimephales promelas	>100	>100
10/19/2021	Ceriodaphnia dubia	>100	>100
10/19/2021	Pimephales promelas	>100	>100
1/5/2022	Ceriodaphnia dubia	>100	>100
1/5/2022	Pimephales promelas	>100	>100
5/10/2022	Ceriodaphnia dubia	>100	>100
5/10/2022	Pimephales promelas	>100	>100
8/23/2022	Ceriodaphnia dubia	>100	>100
10/11/2022	Ceriodaphnia dubia	>100	>100
1/31/2023	Ceriodaphnia dubia	>100	>100
1/31/2023	Pimephales promelas	>100	>100
4/18/2023	Ceriodaphnia dubia	>100	>100
7/18/2023	Ceriodaphnia dubia	>100	>100
10/10/2023	Ceriodaphnia dubia	>100	>100

City of Houston | Houston Public Works | Houston Water

Attachment 10

Effluent Parameters Above the MAL

Domestic Worksheet 6.0, Section 2.C.

Northwest WWTP 10495-076

 ${f b.}$ List all parameters measured above the MAL in the POTW's effluent annual monitoring scans during the last three years.

Pollutant	Concentration	MAL	Units	Date
Aluminum	38.5	2.5	ug/L	10/10/23
Arsenic	0.6	0.5	ug/L	10/10/23
Barium	73	3	ug/L	10/10/23
Copper	5.5	2	ug/L	10/10/23
Nickel	3.1	2	ug/L	10/10/23
Zinc	50.8	5	ug/L	10/10/23
Aluminum	31.0	2.5	ug/L	8/24/2023
Arsenic	1.54	0.5	ug/L	8/24/2023
Barium	55.5	3	ug/L	8/24/2023
Copper	3.90	2	ug/L	8/24/2023
Zinc	39.9	5	ug/L	8/24/2023
Nitrate-nitrogen	2940	100	ug/L	8/24/2023
Chloroform	13.5	10	ug/L	8/24/2023
Total Trihalomethane	18.1	10	ug/L	8/24/2023
Aluminum	36	2.5	ug/L	5/25/2023
Arsenic	0.48	0.5	ug/L	5/25/2023
Barium	83.7	3	ug/L	5/25/2023
Copper	3.85	2	ug/L	5/25/2023
Nickel	2.13	2	ug/L	5/25/2023
Zinc	33	5	ug/L	5/25/2023
Nitrate-nitrogen	7700	100	ug/L	5/25/2023
Bromodichloromethane	24.7	10	Ug/L	5/25/2023
Chloroform	69	10	ug/L	5/25/2023

Additional page (page 2 of 5)

Northwest WWTP 10495-076

Pollutant	Concentration	MAL	Units	Date
Total Trihalomethane	100	10	ug/L	5/25/2023
Aluminum	7.83	2.5	ug/L	1/26/2023
Barium	62.5	3	ug/L	1/26/2023
Copper	5.85	2	ug/L	1/26/2023
Nickel	2.80	2	ug/L	1/26/2023
Zinc	26.5	5	ug/L	1/26/2023
Aluminum	10.6	2.5	ug/L	11/17/2022
Barium	44.3	3	ug/L	11/17/2022
Copper	2.35	2	ug/L	11/17/2022
Nickel	3.11	2	ug/L	11/17/2022
Zinc	37.3	5.0	ug/L	11/17/2022
Aluminum	21.9	2.5	ug/L	8/25/2022
Arsenic	0.69	0.5	ug/L	8/25/2022
Barium	68.6	3	ug/L	8/25/2022
Copper	4.83	2 ug/L		8/25/2022
Nickel	4.19	2	ug/L	8/25/2022
Zinc	43.8	5	ug/L	8/25/2022
Nitrate-nitrogen	7480	100	ug/L	8/25/2022
Bromodichloromethane	26.3	10	ug/L	8/25/2022
Chloroform	65.6	10	ug/L	8/25/2022
Total Trihalomethane	99.0	10	ug/L	8/25/2022
Mercury	0.00851	0.005	ug/L	8/25/2022

Northwest WWTP 10495-076

Pollutant	Concentration	MAL	Units	Date
Phenol	52	10	ug/L	8/25/2022
Aluminum	14.9	2.5	ug/L	5/19/2022
Arsenic	0.66	0.5	ug/L	5/19/2022
Barium	45.6	3	ug/L	5/19/2022
Copper	4.06	2	ug/L	5/19/2022
Nickel	3.97	2	ug/L	5/19/2022
Zinc	40.6	5	ug/L	5/19/2022
Nitrate-nitrogen	7320	100	ug/L	5/19/2022
Bromodichloromethane	16.6	10 ug/L		5/19/2022
Chloroform	36.8	10	ug/L	5/19/2022
Total Trihalomethane	58.6	10	ug/L	5/19/2022
Aluminum	10.5	2.5	ug/L	3/10/2022
Barium	78.2	3 ug/L		3/10/2022
Copper	2.58	2	ug/L	3/10/2022
Nickel	3.91	2	ug/L	3/10/2022
Zinc	33.3	5	ug/L	3/10/2022
Mercury	0.00879	0.005	ug/L	3/10/2022
Aluminum	17.4	2.5	ug/L	11/09/2021
Arsenic	0.567	0.5	ug/L	11/09/2021
Barium	64.0	3	ug/L	11/09/2021

Northwest WWTP 10495-076

Pollutant	Concentration	MAL	Units	Date
Copper	2.94	2	ug/L	11/09/2021
Nickel	3.35	2	ug/L	11/09/2021
Zinc	37.1	5.0	ug/L	11/09/2021
Nitrate-nitrogen	6540	100	ug/L	11/09/2021
Bromodichloromethane	22.1	10	ug/L	11/09/2021
Chloroform	49.0	10	ug/L	11/09/2021
Total Trihalomethane	78.2	10	ug/L	11/09/2021
Aluminum	22.1	2.5	ug/L	5/27/2021
Arsenic	ic 0.898		ug/L	5/27/2021
Barium	122	3	ug/L	5/27/2021
Copper	2.33	2	ug/L	5/27/2021
Nickel	3.35	2	ug/L	5/27/2021
Zinc	30.4	5	ug/L	5/27/2021
Nitrate-nitrogen	200	100	ug/L	5/27/2021
Bromodichloromethane	34.7	10	ug/L	5/27/2021
Chloroform	76.4	10	ug/L	5/27/2021
Dibromochloromethane	10.2	10	ug/L	5/27/2021
Total Trihalomethane	121	10	ug/L	5/27/2021
Mercury	0.00781	0.005	ug/L	5/27/2021
Aluminum	22.5	2.5	ug/L	1/14/2021

Northwell WWTP 10495-076

Pollutant	Concentration	MAL	Units	Date	
Barium	101	3	ug/L	1/14/2021	
Copper	3.38	2	ug/L	1/14/2021	
Nickel	3.26	2	ug/L	1/14/2021	
Zinc	38.9	5	ug/L	1/14/2021	
Phenol	21.8	10	ug/L	1/14/2021	
Mercury	0.127	0.005	ug/L	1/14/2021	
Aluminum	11.2	2.5	ug/L	8/20/2020	
Arsenic	0.524	0.5	ug/L	8/20/2020	
Barium	59.9	3	ug/L	8/20/2020	
Nickel	3.69	2	ug/L	8/20/2020	
Zinc	39.4	5	ug/L	8/20/2020	

Jon Niermann, Chairman

Bobby Janecka, Commissioner

Catarina R. Gonzales, Commissioner

Kelly Keel, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Date, 2024

Mr. Walid Samarneh, P.E. City of Houston 10500 Bellaire Boulevard Houston, Texas 77072

RE: Notice of Preliminary Decision and Draft Permit

Applicant Name: City of Houston Facility Name: Northwest WWTP Permit No.: WQ0010495076

Customer Reference Number: CN600128995 Regulated Entity Number: RN101610665

Type of Application: Renewal

Dear Mr. Samarneh:

The executive director has completed the technical review of the above referenced application, received on December 1, 2023 and has prepared a preliminary decision and draft permit.

You are now required to publish another notice of your proposed activity. To help you meet the requirements associated with this notice, we have included the following items:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Publisher's Affidavits
- Draft Permit
- Executive Director's Preliminary Decision
- Public Notice Verification Form

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

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

1. You must publish the enclosed notice within as soon as possible, but no later than 45 days from the date on the cover letter. You may be required to publish the

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

Mr. Walid Samarneh, P.E., Page 2 Date, 2024 Permit No. WQ0010495076

notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.

- 2. On or before the date you publish notice, you must place the following items in a public place in the county where the facility is or will be located.
 - (a) a copy of your permit application, including any subsequent revisions;
 - (b) the executive director's preliminary decision as contained in the technical summary and fact sheet; and
 - (c) the draft permit, including any subsequent revisions.

These items must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place until the commission has taken action on the application or the commission refers issues to the State Office of Administrative Hearings.

- 3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within 30 calendar days after notice is published in the newspaper.
- 4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

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

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact the individual in the permitting area assigned to your application.

Sincerely,

Laurie Gharis Chief Clerk Office of the Chief Clerk Texas Commission on Environmental Quality

LG/MAM/CIA team member initials

Enclosures

Mr. Walid Samarneh, P.E., Page 3 Date, 2024 Permit No. WQ0010495076

bcc: TCEQ Region 12, Water Program Manager

Jon Niermann, Chairman
Bobby Janecka, Commissioner
Catarina R. Gonzales, Commissioner
Kelly Keel, Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Date, 2024

Mr. Walid Samarneh, P.E. City of Houston 10500 Bellaire Boulevard Houston, Texas 77072

RE:

Permit Application

Permit No.: WQ0010495076

City of Houston Northwest WWTP

Houston, Texas 77072, Harris County

Customer Reference Number: CN600128995 Regulated Entity Number: RN101610665

Dear Mr. Samarneh:

The Texas Commission on Environmental Quality (TCEQ) has made a preliminary decision on the above-referenced permit applications. In accordance with Title 30 Texas Administrative Code § 39.419(b), you are now required to publish Notice of Application and Preliminary Decision. You must provide a copy of the preliminary decision letter with the draft permit at the public place referenced in the public notice.

If you have any questions, please contact the individual in the permitting area assigned to your application, or write to the TCEQ, Office of Water, Water Quality Division, MC-148, Austin, Texas, 78711-3087.

Sincerely,

Matthew Udenenwu Section Manager, Wastewater Permitting Office of Water Texas Commission on Environmental Quality

MU/MAM/CIA team member initials

Enclosures

Mr. Walid Samarneh, P.E., Page 2 Date, 2023 Permit No. WQ0010495076

cc: TCEQ Region 12, Water Program Manager

Jon Niermann, *Chairman*Bobby Janecka, *Commissioner*Catarina R. Gonzales, *Commissioner*Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

Mr. Walid Samarneh, P.E. City of Houston 10500 Bellaire Boulevard Houston, Texas 77072

Re: City of Houston - TPDES Permit No. WQ0010495076, EPA ID No. TX0063011 (CN600128995; RN101610665)

Dear Mr. Samarneh:

Enclosed for your review and comment is a copy of a draft permit, Fact Sheet and Executive Director's Preliminary Decision for the above-referenced operation. This draft permit is subject to further staff review and modification; however, we believe it generally includes the terms and conditions that are appropriate to your discharge. Please read the entire draft carefully as there may be changes from the existing permit and note the following:

- 1. The draft permit will be issued to expire five years from the date of issuance.
- 2. The Standard Permit Conditions, Sludge Provisions, Other Requirements, Pretreatment Requirements, and Biomonitoring sections of the draft permit have been updated.
- 3. *E. coli* bacteria limits have been continued in the draft permit in accordance with the recent amendments to 30 TAC Chapters 309 and 319. The bacteria limits in the draft permit are consistent with the requirements of the TMDL, Project No. 22, and any subsequent associated Water Quality Management Project updates.
- 4. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.
- 5. Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.
- 6. The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

Mr. Walid Samarneh, P.L. Page 2

7. This application was declared administratively complete on February 7, 2024. Please note, a translated copy of the NAPD in the alternative language must be submitted with your comments on the draft permit. If a translated NAPD is not received, the draft permit cannot be filed with the Office of the Chief Clerk. For notice templates in Spanish, please visit: https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html.

Also enclosed for your review and comment is a copy of the draft second notice, the Notice of Application and Preliminary Decision (NAPD), that was prepared for your application. Please review this notice and provide comments if there are any inaccuracies or any information that is not consistent with your application. Please do not publish the notice at this time; after the draft permit is filed with the Office of the Chief Clerk, you will receive instructions for publishing this notice in a newspaper from the Office of the Chief Clerk. Please note that these instructions will not be mailed if the Office of the Chief Clerk has not received the requested proof that the first notice (Notice of Receipt and Intent to Obtain a Permit) has been published. This could cause delays in the processing of your application and the final issuance of the draft permit. When the NAPD notice is received, please publish promptly and submit proof of publication (affidavit and tearsheet) to the Office of the Chief Clerk. Failure to publish notice and submit proof of publication in a timely manner may result in returning of the application and loss of authorization to operate.

It is your responsibility to submit your comments on the draft permit prior to the deadline that is indicated in the email. Comments can be sent to miguel.mercado@tceq.texas.gov in place of or in addition to a hard copy.

If you have any comments or questions, please contact me at (512) 239-4547, or if by correspondence, include MC 148 in the letterhead address following my name.

Sincerely,

Miguel A. Mercado
Miguel A. Mercado, Permit Coordinator
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

MAM/SW

Enclosures

Texas Commission on Environmental Quality INTEROFFICE MEMORANDUM

	To:		Deba Dutta, P.E., Team Leader Municipal Team, Wastewater Permitting Section			Dat	e: 06/14/2024	
	From	ı:			ercado, Municipa			MAM 06/13/2024
				City o North	f Houston west WWTP		EPA ID No	: TX0063011
	FILE	ironmental (nents\Waste o\Working Permit Pack	Quality\Water water Permitting age.docx					
	Stand Critic Mode	in Comple dards Mer cal Condit eling Men onitoring	no: ion Mem io:		02/07/2024 02/08/2024 02/13/2024 02/14/2024 02/14/2024	Pretreatment Mer Assign Date: Tech Complete Date: RFI Letter Date: Response Letter I	03/06 ate: 06/12 05/07	9/2024 6/2024 1/2024 7/2024 0/2024
	Public Domestic PERMIT TYPE ☑ Discharge (TPDES) ☑ Maj							1 MGD)
YES MANAMADD NAMAMADDAM		Transm Transm Fact Sh Permit Biomon Pretrea Authori WWTP Include languag EPA RE FACILI TEXTON NOTICE CAPTIO Legislati MAJOR LOCATE SPELLC	Draft hitoring I tment Re zation to in draft s approp e in noti VIEW C Y PROC X Printo E for adm N (also s ive Notic /MINOR ED IN TH HECK: I	er to EFED Prelection	PERMIT Splicant PA iminary Decision for Major Timents for Major Timents for POTWs pply or dispose of the requirements (fact sheet, attachmore Jack Struck) PERMIS Seplete on or after 9, 1:\EVERYONES POP) required (save RMINATION if ne STAL ZONE (if local PERMIT/TECH SI	Class B Biosolids or se (including quarterly arents. (1/99 vq\CAPTION) d in I:\WO\Muni\I	ewage sludge on annual report the state of t	Threshold Sheet)
	\boxtimes	Located COMPL ENFORC	in the Ed IANCE CEMENT	kC lwards . HIST('ORDE	Aquifer area: DRY: CN=8.47 (S R(S); ERC Part Co	Satisfactory) and R	N=12.29 (Sat	

COMMENTS: A renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 18 million gallons per day.

The pretreatment language in the existing permit has been updated in the draft permit. The pretreatment requirements will continue until permit expiration.

Request for Comments on Draft Permit TCEQ – Water Quality Division Phone: (512)239-4671 Fax: (512)239-4430

Mailing Address: TCEQ, Water Quality Division, P.O. Box 13087, Austin, TX 78711-3087

TO: Region: 12

Submitted by: Miguel A. Mercado E-Mail ID: miguel.mercado@tceq.texas.gov Phone: (512) 239-4547

Date Request Submitted:

Comments Deadline: Within 7 days

Date Application Received by TCEQ in Austin: December 1, 2023

REGIONAL OFFICES: The entity below has submitted an application for the project referenced below in accordance with regulations of the TCEQ. Please return comments ASAP, but no later than the comments deadline, which is 10 days from the submittal date. Permit disposition will proceed after comments are received or after the comments deadline has passed. If no comments are received within this time frame, we will assume you have no comments or objections to the project as proposed. Please return a complete copy of the form (both sides) with your comments.

PROJECT TYPE: Renewal TEAM ASSIGNED: MUNICIPAL

APPLICATION TYPE: TPDES TLAP REGULATED ENTITY NO.: RN101610665

PERMIT NO.: WQ0010495076 CUSTOMER REFERENCE NO.: CN600128995

COMPANY NAME: City of Houston

PLANT NAME: Northwest WWTP

ADDRESS: 10500 Bellaire Boulevard, Houston, Texas 77072

SEGMENT: 1017 COUNTY: Harris

TECHNICAL CONTACT: Mr. Walid Samarneh, P.E. PHONE: 832-395-5771

PERMIT CLASSIFICATION: MAJOR

COMPLIANCE RATING: CN=8.47 (Satisfactory) and RN=12.29 (Satisfactory)

SUMMARY OF APPLICATION REQUEST: A renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 18 million gallons per day (MGD).

PERMIT WRITER COMMENTS: The pretreatment language in the existing permit has been updated in the draft permit. The pretreatment requirements will continue until permit expiration.

RESPONSE TO REQUEST FOR COMMENTS ON DRAFT PERMIT

TO: Miguel A. Mercado
FROM: Region: 12
Copy of Application Received by your Office: YES NO Date Received:
COMPANY NAME: City of Houston
PERMIT NO.: WQ0010495076
REGULATED ENTITY NO: RN101610665
Investigator's/Compliance Officer's Name (Please Print):
Phone:
Comments Deadline (from pg. 1):
Date of Last Site Visit:
COMMENTS ON CONDITIONS: (Please mark up the draft special conditions with your comments Please address applicability and enforceability. List any additional conditions below):
Compliance Determination Conditions:
Operational Limitations:
General Comments:

MUNICIPAL EPA REVIEW CHECKLIST

Permittee Name:

Draft permit authorizes:

City of Houston

Permit Number:

TPDES Permit No. WQ0010495076, EPA ID No. TX0063011

NOTE: Minor amendments, endorsements, and minor modifications (except for pretreatment) are exempt from EPA review. However, HSC permits Seg Nos. 1001, 1005, 1006, 1007, 1016, 2426, 2427, 2428, 2429, 2430, and 2436 require review by modeling to ensure that the loading is consistent with the revised WLE-1R, so you may need to check with the modeler or check the most recent modeling memo to confirm that the loading is consistent.

For renewal, amendment or new permits check any items that apply to determine if the permit is subject to EPA review:

Please check \boxtimes all the applicable below:

YES	NO					
		Discharge from a designated major facility				
$\overline{\boxtimes}$		Discharge from a POTW with an approved pretreatment program				
$\overline{\boxtimes}$		Discharge from a facility with a daily/annual average flow >1.0 MGD				
Ħ	$\overline{\boxtimes}$	Discharge to a critical concern species watershed that requires EPA review				
П	$\overline{\boxtimes}$	Discharge that includes a request for a water quality variance				
		Storm water discharge to high priority species watershed				
П	$\overline{\boxtimes}$	First time implementation of a final TMDL for an existing facility				
Ħ	$\overline{\boxtimes}$	Prior to a final TMDL, new permit, or expanded discharge to an impaired listed 303(d) listed				
		segment, and that has the potential to discharge any pollutant that is causing or contributing to				
		the impairment.				
	\boxtimes	After a final TMDL, new permit or expanded discharge to an impaired listed 303(d) listed				
		segment where the TMDL does not allocate the loadings described in the draft permit				
	\boxtimes	After a final TMDL, a permit with effluent limits that allow loadings in excess of those				
	1 2	prescribed by the TMDL for the segment				
		After a final TMDL, a permit that allows more than a 3-year schedule for an existing facility to				
		be in compliance with final effluent limits based on the TMDL allocation (new facilities have to				
		be compliant upon discharge)				
	\boxtimes	Discharge directly to territorial seas of the United States (from the coastline to 3 miles out but				
		not including Bays and Estuaries)				
	\boxtimes	Discharge or sewage sludge management that may affect another state or Mexico. For sewage				
		sludge management, may affect means, accepts sewage sludge from another state or Mexico.				
		For discharge, it means a discharge within 3 miles of a boundary with another state or Mexico.				
	\boxtimes	Discharge from a Class I sludge management facility. (A Class I facility is a POTW or				
		combination of POTWs operated by the same authority with a design flow of >5 MGD and that				
		have IUs and are required to have an approved pretreatment program or are subject to				
		pretreatment standards, OR any other treatment works treating domestic sewage sludge				
		classified as a Class I sludge management facility by the Regional Administrator in conjunction				
		with the TCEQ.)				

If any column is marked "YES", EPA <u>must</u> receive a copy of the full permit package. If all columns are marked "NO", EPA does <u>not</u> need to review the draft permit.

Permit Writer:

Miguel A. Mercado

Date:

May 20, 2024

MUNICIPAL MAJOR/MINOR DETERMINATION

Permittee Name:	City of Houston								
Permit Number:	TPDES Permit No. WQ0010495076, EPA ID No. TX0063011								
Type of Application: Renewal									
Check Appropriate Classification:									
⊠ Major □ Minor									
Permitted Flow: 18 million gallons per day.									
Permit Writer:	Miguel A. Mercado								
Date:	May 20, 2024								

PARIS FACILITY EXTENSION - TREATMENT PROCESS TPDES PERMIT NO. WQoo10495076

PERMITTEE: PLANT NAME	City of Houston Northwest WWTP					
Application Type:	Renewal	🗌 Interim I	☐ Interim II	□Interim III	⊠ Final	
WASTEWATER T	REATMENT	41 Alum addition to se		73 Wet air oxidation	d-inchede sond	
Primary Tre	atment	42 Alum addition to separate state 43 Ferri-chloride addition to primary		74 Dewatering – sludge drying beds, sand F2 Dewatering – sludge drying bed		
02 Preliminary treatm 03 Preliminary treatme 04 Preliminary treatme	ent – bar screen ent – grit removal	44 Ferri-chloride addition to secondary 45 Ferri-chloride addition to separate 46 Other chemical additions		75 Dewatering – mechanical-vacuum 76 Dewatering – mechanical – centrifuge 77 Dewatering – mechanical – filter press		
05 Preliminary treatme B1 Imhoff tank	ent - others	47 Ion exchange 48 Breakpoint chlorination		78 Dewatering – others 79 Gravity thickening		
o6 Scum removal		49 Ammonia stripping		80 Air flotation thickening		
o7 Flow equalization bao8 Preaerationo9 Primary sedimentat		50 Dechlorination Disinfection		D6 Sludge holding tank Incineration		
D2 Septic tank		51 Chlorination for disinfection		81 Incineration – multiple hearth		
A5 Facultative lagoon		52 Ozonation for disinfection		82 Incineration – fluidized beds		
Secondary Tr	aatmant	53 Other disinfection		83 Incineration – rotary kiln		
10Trickling filter – rock		D3 Ultra violet light		84 Incineration –others 85 Pyrolysis		
11 Trickling filter - plas	tic media	Land Treatment		86 Co-incineration with solid waste		
12 Trickling filter - red	wood slats	54 Land treatment of primary effluent		87 Co-pyrolysis with solid waste		
13 Trickling filter - othe	er media	55 Land treatment of secondary effluent		88 Co-incineration - others		
14 Activate sludge – cor 15 Activate sludge – cor		56 Land treatment of intermediate (less than secondary) SLUDGE DISPOSAI		POSAT.		
16 Activate sludge – cor		(less than secondary)		89 Co-disposal landfill		
17 Activated sludge – ex	xtended aeration	Other Treatment		D7 Sludge – only monofill		
18 Pure oxygen activate		57 Stabilization ponds		90 Land application (permitted)		
19 Bio-Disc (rotating bio 20 Oxidation ditch	ological filter)	58 Aerated lagoons 59 Outfall pumping		91 Commercial land application 92 Trenching		
21 Clarification using tu	be settlers	60 Outfall diffuser		B5 Transport to another WWTP		
22 Secondary clarification		61 Effluent to other plants		F3 Transport to Regional compost facility		
B6 Constructed wetland	ls	62 Effluent outfall		94 Other sludge handling		
E5 Natural treatment E6 Overland flow		63 Other treatment		95 Digest gas utilization facilities		
Eo Overland now		64 Evapo-transpiration beds 64 Recalcination		E7 Commercial land application F4 Dedicated land disposal		
Advanced Treatmen	nt - Biological	041100000000000000000000000000000000000		F5 Marketing and distribution		
23 Biological nitrificatio		Disposal Method		F6 Marketing and distribution non-		
24 Biological nitrification	on - combined	A7 Irrigation – public access		MICCELLANEOUS		
25 Biological denitrifica 26 Post aeration (reaera	tion)	A8 Irrigation – agricultural B4 Evapo-transpiration beds		MISCELLANEOUS 01 Pumping raw wastewater		
		B6 Constructed wetlands		96 Control/lab/maintenance buildings		
Advanced Trea		C1 Irrigation – pasturel		97 Fully automated using	digital control -	
27 Microstrainers – prin 28 Microstrainers – seco	nary	D4 Pressure dosing system		98 Fully automated using analog control		
26 Microstramers – sect D1 Dunbar Beds	Jildary	D5 Percolation system D8 Other reuse method		99 Semi-automated plant A1 Manually operated and		
29 Sand filters		E1 Evaporation/plays		A2 Package plant		
30 Mix media filters (sai	nd and coal)	E2 Discharge only		A3 Semi-package plant		
31 Other filtrations				A4 Custom built plant		
B2 Bubble diffuser (compressor) 32 Activated carbon – granular		E4 Injection well(s)		A7 Irrigation – public access A8 Irrigation – agriculture		
33 Mechanical surface aerator		SLUDGE TREATMENT		A9 Effluent storage ponds (irrigation)		
33 Activated carbon-powered				C1 Irrigation – pastureland		
34 Two stage lime treatment of raw		66 Aerobic digestion – c		D8 Other reuse method		
35 Two stage tertiary lime treatment 36 Single stage lime treatment of raw		67 Composting D9 Emergency holding			onas	
		68 Anaerobic digestion E1 Evaporation or playa 69 Sludge lagoons E8 Monitoring wells				
38 Recarbonation		70 Heat treatment - dry	er er	E9 Biomonitoring		
39 Neutralization		71 Chlorine oxidation of 72 Lime stabilization		F7 Stormwater (SSO)		
o Alum addition to prin	F8 Unconventional					
PERMIT	Miguel A. M	ercado		8		

Municipal Permits Team Wastewater Permitting Section, Water Quality Division

Date:

May 20, 2024

Comisión De Calidad Ambiental Del Estado De Texas



COMBINADO AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA (NORI)

AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA ÉL PERMISO TPDES PARA AGUAS RESIDUALES MUNICIPALES (NAPD)

RENOVACIÓN

PERMISO NO. WQ0010495076

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para una renovación del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0010495076, cuál autoriza la descarga de malgaste agua tratados domésticos en un flujo anual a no exceder 18,000,000 galones por día. La TCEQ recibió esta solicitud el 1 de diciembre de 2023.

Este aviso combinado se emite para corregir el contacto técnico de lo que se indicó anteriormente en el NORI emitido el 7 de febrero de 2024.

La facilidad está ubicada en 5423 Mangum Road, Condado de Harris, Texas, 77091. El efluente tratado es descargado al riachuelo Cole Creek; de allí al pantano Whiteoak Bayou por encima de la marea en la cuenca del Segmento No. 1017 del río San Jacinto River. Los usos designados para el Segmento No. 1017 el uso principal es la recreación de contacto y uso limitado de la vidas acuáticas. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que, si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en el Departamento de Trabajos Públicos de Houston, Operaciones de Wastewater edificio, 10500 Bellaire Boulevard, Houston, Condado de Harris, Texas.

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 todos 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. La TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

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

Todos los comentarios escritos del público y los pedidos para una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o por el internet a www.tceq.texas.gov/goto/comment durante los 30 días después de la publicación del aviso.

INFORMACION DISPONIBLE ONLINE. Para más detalles sobre el estado de la aplicación, visite la base de datos integrada del Comisario al www.tceq.texas.gov/goto/cid. Buscar en la base de datos usando el número de permiso para esta aplicación, que se puede encontrar al inicio de este aviso.

AGENCIA CONTACTOS Y INFORMACIÓN. Todos los comentarios escritos del público y los pedidos para una reunión deben ser por el internet www.tceq.texas.gov/goto/comment o por escrito a la Oficina del Secretario Principal, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que usted envíe formará parte del registro del TCEQ, incluidas las direcciones de correo electrónico. 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/goto/pep. Para información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del La Ciudad de Houston a la dirección indicada arriba o llamando a Sr. Walid Samarneh, P.E., al 832-395-5771.

Fecha de emission:

John Hearn

From:

Fragassi, Arielle - HPW < Arielle. Fragassi@houstontx.gov>

Sent:

Wednesday, June 11, 2025 7:46 AM

To:

John Hearn

Cc:

Samarneh, Walid - HPW

Subject:

RE: NAPD for WQ0010495076; City of Houston

Attachments:

NW_COMBO_Spanish.docx

Apologies for the mix-up. Here is the Spanish translation of the combined notice.

Thank you,

Arielle Fragassi

Environmental Investigator IV City of Houston | Houston Public Works 832.395.5755

From: John Hearn < John. Hearn@tceq.texas.gov>

Sent: Tuesday, June 10, 2025 1:54 PM

To: Fragassi, Arielle - HPW <Arielle.Fragassi@houstontx.gov>
Cc: Samarneh, Walid - HPW <Walid.Samarneh@houstontx.gov>

Subject: RE: NAPD for WQ0010495076; City of Houston

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Hello Arielle,

The attached Spanish translation does not incorporate the changes. Please revise and resubmit the Spanish translation of the combined notice.

Thanks, John

From: Fragassi, Arielle - HPW < Arielle. Fragassi@houstontx.gov>

Sent: Thursday, June 5, 2025 1:50 PM

To: John Hearn < John. Hearn@tceq.texas.gov>

Cc: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov >

Subject: RE: NAPD for WQ0010495076; City of Houston

Hello John,

The notice looks good. Please see attached for the Spanish translation.

Thank you!

Arielle Fragassi

Environmental Investigator IV

City of Houston | Houston Public Works 832.395.5755

From: John Hearn < John. Hearn@tceq.texas.gov>

Sent: Wednesday, June 4, 2025 2:31 PM

To: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov >

Cc: Fragassi, Arielle - HPW < Arielle.Fragassi@houstontx.gov >; Samarneh, Walid - HPW

< Walid. Samarneh@houstontx.gov >

Subject: RE: NAPD for WQ0010495076; City of Houston

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Hello Arielle and Walid,

Please see the attached revised notice with Walid as the technical contact. Please review the revised notice and respond with either acceptance or comments ASAP.

I will also need a revised Spanish NAPD that incorporates the revisions. I have attached the one that the City submitted previously.

Please let me know if you have any questions.

Thanks, John

From: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov>

Sent: Friday, May 30, 2025 3:10 PM

To: John Hearn < John. Hearn@tceg.texas.gov>

Cc: Fragassi, Arielle - HPW < Arielle.Fragassi@houstontx.gov >; Samarneh, Walid - HPW

<Walid.Samarneh@houstontx.gov>

Subject: RE: NAPD for WQ0010495076; City of Houston

Hello John,

I'm checking on this NAPD. Please work with Arielle and Walid, as today is my last day at the City.

Thank you, Heather

Heather Maloney

Division Manager Regulatory Compliance | Houston Water (o) 832-395-5756



From: Maloney, Heather - HPW

Sent: Wednesday, May 21, 2025 9:16 AM

To: WQDbNAPD < WQDbNAPD@tceq.texas.gov > **Cc:** John Hearn < John.Hearn@tceq.texas.gov >

Subject: RE: NAPD for WQ0010495076; City of Houston

Good morning,

We have a last minute correction to the NAPD. I am listed as the point of contact, but my last day of employment at the City will be May 30. Can we update the contact to Walid Samarneh, P.E. at 832-395-5771, please?

Thank you, Heather

Heather Maloney

Division Manager Regulatory Compliance | Houston Water (o) 832-395-5756



From: WQDbNAPD < WQDbNAPD@tceq.texas.gov>

Sent: Tuesday, May 20, 2025 2:05 PM

To: Samarneh, Walid - HPW <Walid.Samarneh@houstontx.gov>; Maloney, Heather - HPW

<Heather.Maloney@houstontx.gov>

Cc: John Hearn < John. Hearn@tceq.texas.gov > Subject: NAPD for WQ0010495076; City of Houston

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Hello,

Permit No. WQ0010495076

Applicants are required to publish the Notice of Application and Preliminary Decision Water Quality Permit within 45 days of the date of this correspondence.

Attached are:

- Applicant Letter
- Preliminary Decision Letter
- Instructions of Public Notice
- Notice of Application and Preliminary Decision
- Notice of Application and Preliminary Decision in Alternative Language
- Affidavit of Publication
- Public Notice Verification Form
- Draft Permit
- Fact Sheet

IMPORTANT: You must enter the Applicant Name and Permit Number into the sections provided in the upper right portion of the Affidavits of Publication. The CID or CCO Number section does not need to be entered and is intended for internal use only.

For any questions on this submittal, please contact us at wqdbnapd@tceq.texas.gov.

Thank you

Comisión De Calidad Ambiental Del Estado De Texas



AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA ÉL PERMISO TPDES PARA AGUAS RESIDUALES MUNICIPALES

RENOVACIÓN

PERMISO NO. WQ0010495076

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para una renovación del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) Permiso No. WQ0010495076, cuál autoriza la descarga de malgaste agua tratados domésticos en un flujo anual a no exceder 18,000,000 galones por día. La TCEQ recibió esta solicitud 1 de diciembre de 2023.

La facilidad está ubicada en 5423 Mangum Road, Ciudad de Houston, Condado de Harris, Texas 77091. El efluente tratado es descargado al riachuelo Cole Creek; de allí al pantano Whiteoak Bayou por encima de la marea en la cuenca del Segmento No. 1017 del río San Jacinto River. Los usos designados para el Segmento No. 1017 el uso principal es la recreación de contacto y uso limitado de la vidas acuáticas. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que, si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en el edificio Departamento de Trabajos Públicos de Houston, 10500 Bellaire Boulevard, Houston, Texas.

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 todos 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. La TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

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

Todos los comentarios escritos del público y los pedidos para una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 o por el internet a www.tceq.texas.gov/goto/comment durante los 30 días después de la publicación del aviso.

INFORMACION DISPONIBLE ONLINE. Para más detalles sobre el estado de la aplicación, visite la base de datos integrada del Comisario al www.tceq.texas.gov/goto/cid. Buscar en la base de datos usando el número de permiso para esta aplicación, que se puede encontrar al inicio de este aviso.

AGENCIA CONTACTOS Y INFORMACIÓN. Todos los comentarios escritos del público y los pedidos para una reunión deben ser por el internet www.tceq.texas.gov/goto/comment o por escrito a la Oficina del Secretario Principal, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que usted envíe formará parte del registro del TCEQ, incluidas las direcciones de correo electrónico. 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/goto/pep. Para información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del La Ciudad de Houston a la dirección indicada arriba o llamando a Sra. Heather Maloney, al 832-395-5756.

Fecha de emission:

John Hearn

From:

Maloney, Heather - HPW < Heather. Maloney@houstontx.gov>

Sent:

Monday, May 5, 2025 2:54 PM

To:

John Hearn

Cc:

Samarneh, Walid - HPW; Fragassi, Arielle - HPW

Subject:

RE: WQ0010495076 CITY OF HOUSTON

Attachments:

WQ0010495076_Revised.docx; NW_NAPD_Spanish.docx

Good afternoon John,

The City accepts the second draft permit (received on May 1, 2025). The Spanish NAPD is also attached.

Thank you, Heather

Heather Maloney

Division Manager Regulatory Compliance | Houston Water (o) 832-395-5756



From: John Hearn < John. Hearn@tceg.texas.gov>

Sent: Thursday, May 1, 2025 2:21 PM

To: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov>

Cc: Samarneh, Walid - HPW < Walid.Samarneh@houstontx.gov>; Fragassi, Arielle - HPW

<Arielle.Fragassi@houstontx.gov>

Subject: RE: WQ0010495076 CITY OF HOUSTON

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Good afternoon Heather,

Please see the revised draft permit attached. Other Requirement No. 7 instream monitoring has been removed from the draft.

Please review the draft permit and reply ASAP with either acceptance of the draft or further comments. I will also need a Spanish translation of the NAPD before I can move this one to OCC.

Thanks,

John

From: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov >

Sent: Wednesday, July 3, 2024 1:28 PM

To: Miguel Mercado < Mguel. Mercado @tceq.texas.gov>

Cc: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov >

Subject: RE: WQ0010495076 CITY OF HOUSTON

Good afternoon Miguel,

Please accept the following comments regarding the draft permit dated June 14, 2024.

The City requests the removal of the instream monitoring study for chloride and sulfate for the following reasons:

- Instream data is already sampled at surface water quality monitoring (SWQM) stations 15829 (Whiteoak Bayou, downstream of facility), 15831 (Whiteoak Bayou, upstream of confluence with Cole Creek), and 16593 (Cole Creek, upstream of facility).
- 2. The data show that for the past thirty years of monitoring, the instream concentration of total dissolved solids (TDS), chloride, and sulfate have decreased throughout the segment, and the segment is not listed on the Integrated Report for any of these parameters.
- 3. If the data from Station 15831 is used for the ambient segment concentration in TDS menu 2, then the preliminary calculations show that no further screening is required for TDS, chloride, or sulfate at the permitted flow of 18 MGD
- 4. The facility currently discharges less than half of its permitted flow. When using the ambient segment concentration from either the IPs or SWQM station 15831, no permit limitations are needed at the facility's average flow of 8 MGD.

Thank you, Heather

Heather Maloney

Environmental Investigator V, Houston Public Works 832-395-5756

HOUSTON

From: Samarneh, Walid - HPW < Walid.Samarneh@houstontx.gov>

Sent: Thursday, June 27, 2024 3:20 PM

To: Maloney, Heather - HPW < <u>Heather.Maloney@houstontx.gov</u>> **Cc:** Sanchez, Jose F. - HPW < <u>Jose.Sanchez2@houstontx.gov</u>>

Subject: FW: WQ0010495076 CITY OF HOUSTON

Thank You,

Walid Samarneh, P. E.
Managing Engineer – Regulatory Compliance
City of Houston | Houston Public Works |
(832) 395-5771 (O) | (713) 501-2782 (C) |

From: Sophia Houston < Sophia. Houston@tceq.texas.gov>

Sent: Wednesday, June 26, 2024 5:04 PM

To: carol.labreche@houstontx.gov; Samarneh, Walid - HPW < Walid.Samarneh@houstontx.gov>

Cc: Miguel Mercado < Mguel. Mercado@tceq.texas.gov>

Subject: WQ0010495076 CITY OF HOUSTON

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

To whom it may concern,

Attached for your review, is the letter, DRAFT permit, NAPD, and statement of basis/technical summary, for Permit WQ0010495076 CITY OF HOUSTON.

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

Please submit any **comments and/or approval** no later than, *Wednesday July 3, 2024*. If the comments and/ or approval are not received by the given deadline, it may cause significant delays in the permit process. Please contact Miguel Mercado with your comments and/ or approval to: Miguel.Mercado@tceq.texas.gov.

Thank you,

Sophia L. Houston

Sophia Houston, Administrative Assistant V Water Quality Division Customer Information Assistance (CIA) Texas Commission on Environmental Quality (TCEQ) Sophia.houston@tceq.texas.gov 512-239-6053

TCEQ Interoffice Memorandum

To: Municip

Municipal Permits Team

Wastewater Permitting Section

From:

Michelle Labrie, Standards Implementation Team

Water Quality Assessment Section

Water Quality Division

Date:

March 10, 2025

Subject:

City of Houston; Permit no. WQ0010495076

Renewal; Application received 12/1/2023

This memo supersedes the one dated May 20, 2024.

The discharge route for the above referenced permit is to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment 1017 of the San Jacinto River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1017 are primary contact recreation, limited aquatic life use, and 3.0 mg/L dissolved oxygen.

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

John Hearn

From:

Michelle Labrie

Sent:

Monday, March 10, 2025 1:49 PM

To:

John Hearn

Subject:

RE: WQ0010495076 CITY OF HOUSTON

Attachments:

10495076_25a.docx

John, thank you for your patience! I know this one took a while. Please let me know if you need anything else, and I promise to be quicker ©

Thanks, Michelle

From: Michelle Labrie

Sent: Monday, March 10, 2025 12:26 PM
To: John Hearn < John. Hearn@tceq.texas.gov>
Subject: RE: WQ0010495076 CITY OF HOUSTON

Hi John! I'm sorry, I finally got a response today. He said it is fine to remove the requirement. I'll send you an supersedes memo asap.

Thanks, Michelle

From: John Hearn < John. Hearn@tceq.texas.gov>

Sent: Friday, March 7, 2025 12:07 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov > Subject: RE: WQ0010495076 CITY OF HOUSTON

Happy Friday Michelle,

Any update on this one?

Thanks, John

From: Michelle Labrie < Michelle.Labrie@tceq.texas.gov >

Sent: Tuesday, February 25, 2025 3:17 PM
To: John Hearn < John. Hearn@tceq.texas.gov >
Subject: RE: WQ0010495076 CITY OF HOUSTON

Good afternoon John,

Apologies for the delay. And hope your week is going well and you are enjoying the warmer weather. I sent an email to my team leader last week asking if we should remove the monitoring requirement but didn't hear back yet. I sent a follow up email earlier this morning and am expecting him to respond today. I'll let you know as soon as I hear from him.

Thanks! Michelle

From: John Hearn < <u>John.Hearn@tceq.texas.gov</u>> Sent: Tuesday, February 25, 2025 2:49 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov > Subject: RE: WQ0010495076 CITY OF HOUSTON

Good afternoon Michelle,

Hope your week is going well so far. Have you been able to look at the below yet?

Please let me know when you get a chance.

Thanks, John

From: John Hearn

Sent: Thursday, February 20, 2025 9:44 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov > Subject: RE: WQ0010495076 CITY OF HOUSTON

Hello Michelle,

I may have misplaced your response to the below email. Do you think you could help me provide a response to City of Houston. They provided the below 4 points in trying to get rid of the instream monitoring study for chloride and sulfate.

Please let me know if you have any questions about this.

Thanks! John

From: John Hearn

Sent: Wednesday, September 11, 2024 10:32 AM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov > Subject: FW: WQ0010495076 CITY OF HOUSTON

Good morning Michelle,

This applicant gave comments about the chloride and sulfate study for the subject permit you did the standards review (attached) for. Do you think you could provide a response to the below? Any help would be appreciated.

Thanks! John

From: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov >

Sent: Wednesday, July 3, 2024 1:28 PM

To: Miguel Mercado < Mguel. Mercado@tceq.texas.gov >

Cc: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Subject: RE: WQ0010495076 CITY OF HOUSTON

Good afternoon Miguel,

Please accept the following comments regarding the draft permit dated June 14, 2024.

The City requests the removal of the instream monitoring study for chloride and sulfate for the following reasons:

- 1. Instream data is already sampled at surface water quality monitoring (SWQM) stations 15829 (Whiteoak Bayou, downstream of facility), 15831 (Whiteoak Bayou, upstream of confluence with Cole Creek), and 16593 (Cole Creek, upstream of facility).
- 2. The data show that for the past thirty years of monitoring, the instream concentration of total dissolved solids (TDS), chloride, and sulfate have decreased throughout the segment, and the segment is not listed on the Integrated Report for any of these parameters.
- 3. If the data from Station 15831 is used for the ambient segment concentration in TDS menu 2, then the preliminary calculations show that no further screening is required for TDS, chloride, or sulfate at the permitted flow of 18 MGD
- The facility currently discharges less than half of its permitted flow. When using the ambient segment
 concentration from either the IPs or SWQM station 15831, no permit limitations are needed at the facility's
 average flow of 8 MGD.

Thank you, Heather

Heather Maloney

Environmental Investigator V, Houston Public Works 832-395-5756



From: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Sent: Thursday, June 27, 2024 3:20 PM

To: Maloney, Heather - HPW < <u>Heather.Maloney@houstontx.gov</u>> **Cc:** Sanchez, Jose F. - HPW < <u>Jose.Sanchez2@houstontx.gov</u>>

Subject: FW: WQ0010495076 CITY OF HOUSTON

Thank You,

Walid Samarneh, P. E.
Managing Engineer – Regulatory Compliance
City of Houston | Houston Public Works |
(832) 395-5771 (O) | (713) 501-2782 (C) |

From: Sophia Houston <Sophia. Houston@tceq.texas.gov>

Sent: Wednesday, June 26, 2024 5:04 PM

To: carol.labreche@houstontx.gov; Samarneh, Walid - HPW <Walid.Samarneh@houstontx.gov>

Cc: Miguel Mercado < Mguel. Mercado@tceq.texas.gov >

Subject: WQ0010495076 CITY OF HOUSTON

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.] To whom it may concern,

Attached for your review, is the letter, DRAFT permit, NAPD, and statement of basis/technical summary, for Permit WQ0010495076 CITY OF HOUSTON.

Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices

Please submit any **comments and/or approval** no later than, *Wednesday July 3, 2024*. If the comments and/ or approval are not received by the given deadline, it may cause significant delays in the permit process. Please contact Miguel Mercado with your comments and/ or approval to: Miguel.Mercado@tceq.texas.gov.

Thank you,

Sophia L. Houston

Sophia Houston, Administrative Assistant V Water Quality Division Customer Information Assistance (CIA) Texas Commission on Environmental Quality (TCEQ) Sophia.houston@tceq.texas.gov 512-239-6053 Calculation of pH of a mixture of two flows. Based on the procedure in EPA's DESCON program (EPA, 1988. Technical Guldance on Supplementary Stream Design Conditions for Steady State Modelina. USEPA Office of Water, Washington D.C.)

CowTown Pipeline, pre-app

City of Houston; 10495-076 Segment 1017

INPUT		Constant State	Source Data: Critical conditions memo feb 13, 2024
. DILUTION FACTOR AT MIXING ZONE BOUNDARY	1.530	1.530	fraction at edge of chronic mixing zone: 65.02
DECEMBER WATER CHARACTERISTICS			Eff. Flow (cfs): 27.85 702 flow: 14.98
RECEIVING WATER CHARACTERISTICS			Next: take reciprocal of % @ edge of mixing zone to get dilution factor
. Temperature (deq C): . pH:	31.00 7.70	31.00	In Table 2 As and
. Alkalinity (mg CaCO3/L):	81.00	7.70 81.00	IPs Table D-08 7.6 IPs Table D-08
. Alkalility (IIIq CaCO3/L).	81.00	81.00	Seg. 1017
EFFLUENT CHARACTERISTICS			Seq. 1017
. Temperature (deg C):	20.00	30.00	
pH:	6.00	9.00	
. Alkalinity (mg CaCO3/L):	20.00 *	80.00	
OUTPUT			
IONIZATION CONSTANTS			
Upstream/Background pKa:	6.32	6.32	
Effluent pKa:	6.38	6.32	
IONIZATION FRACTIONS			
Upstream/Background Ionization Fraction:	0.96	0.96	
Effluent Ionization Fraction:	0.29	1.00	
TOTAL INORGANIC CARBON			
Upstream/Background Total Inorganic Carbon (mg CaCO3/L):	84.37	84.37	
Effluent Total Inorganic Carbon (mg CaCO3/L):	68.20	80.17	
CONDITIONS AT MIXING ZONE BOUNDARY			
Temperature (deg C):	23.81	30.35	
Alkalinity (mg CaCO3/L):	41.13	80.35	
Total Inorganic Carbon (mg CaCO3/L):	73.80	81.63	
pKa:	6.36	6.32	
pH at Mixing Zone Boundary:	6.46	8.12	Segment criteria 6.5-9.0

Rounds to 6.5

* Assume minimal total alkalinity at low effluent pH based on carbonate equilibrium chemistry of natural and treated waters

John Hearn

From:

Michelle Labrie

Sent:

Monday, June 24, 2024 4:04 PM

To:

Miguel Mercado

Subject:

RE: WQ0010495076 - City of Houston

Attachments:

10495076_24pH.xlsm

Hi Miguel,

Here is the updated pH screening. It is recommended for the permit limits to remain at 6.0-9.0. Although the screening shows 6.46, my team lead says it is ok to round up to 6.5 so this one just squeaks by.

Thanks, Michelle

From: Miguel Mercado < Mguel. Mercado @tceq.texas.gov>

Sent: Monday, June 24, 2024 12:12 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov>

Subject: RE: WQ0010495076 - City of Houston

Hi Michelle,

Not to worry and thank you for your help.

Miguel

From: Michelle Labrie < Michelle.Labrie@tceq.texas.gov>

Sent: Monday, June 24, 2024 12:03 PM

To: Miguel Mercado < Mguel. Mercado @tceq.texas.gov >

Subject: RE: WQ0010495076 - City of Houston

Hi Miguel,

Sorry for the late reply, I was out last week and boy does an inbox fill up quickly. I'll check with my team lead on this now and get back to you asap.

Thanks, Michelle

From: Miguel Mercado < Mguel. Mercado@tceq.texas.gov>

Sent: Monday, June 24, 2024 9:23 AM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov>

Subject: RE: WQ0010495076 - City of Houston

Good morning Michelle,

I hope you are doing well. I just wanted to follow up on this it. Thank you for your time.

Sincerely,

Miguel

From: Miguel Mercado

Sent: Friday, June 14, 2024 8:33 AM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov>

Subject: WQ0010495076 - City of Houston

Good morning Michelle,

I hope you are doing well. I want to verify if it is recommended for the permit to remain at its current pH limitations of minimum of 6 to maximum of 9 or it is recommended to change it to 6.5 to 9.0? I have attached the pH screening. Thank you for your time.

Sincerely, Miguel

TCEQ Interoffice Memorandum

To:

Municipal Permits Team

Wastewater Permitting Section

From:

Michelle Labrie, Standards Implementation Team

Water Quality Assessment Section

Water Quality Division

Date:

May 20, 2024

Subject:

City of Houston; Permit no. WQ0010495076

Renewal; Application received 12/1/2023

This memo supersedes the one dated February 8, 2024.

The discharge route for the above referenced permit is to Cole Creek, thence to Whiteoak Bayou Above Tidal in Segment 1017 of the San Jacinto River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1017 are primary contact recreation, limited aquatic life use, and 3.0 mg/L dissolved oxygen.

The Standards Implementation Team recommends the following requirement be added to the permit:

The permittee shall conduct an instream monitoring study for chloride and sulfate. Within 180 days of permit issuance, the permittee shall submit an instream monitoring plan for Cole Creek to the TCEQ Compliance Monitoring Team (MC-224), and cc the Standards Implementation Team (MC 150) for TCEQ review and approval prior to any sampling. The TCEQ may disapprove or modify the work plan within 60 days of receipt. The instream monitoring shall be conducted to collect representative values of ambient chloride and sulfate. Monitoring shall occur at 1) a minimum of one sampling station on Cole Creek located at least 500 feet upstream of the discharge point (i.e., outside of the mixing zone) in an area unimpacted by other wastewater discharges; and 2) a minimum of one sampling station where Cole Creek confluences with Whiteoak Bayou (Segment 1017). Monitoring shall be done at a minimum frequency of once per month, include at least 30 samples from each location, and continue for no less than one year. Samples should be taken at similar frequency each month to ensure data is obtained equally throughout the year. The data should reflect baseline conditions as best as possible. Data collection and analytical methods shall conform to guidelines set forth in the Surface Water Quality Monitoring Procedures, Volume 1 (RG-415, revised August 2012). Prior to the expiration of the issued permit, a final report shall be submitted to the TCEQ Compliance Monitoring Team (MC-224) and cc'ed to the Standards Implementation Team (MC 150)

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

John Hearn

From:

Michelle Labrie

Sent:

Monday, May 20, 2024 11:59 AM

To:

Miguel Mercado

Subject:

RE: WQ0010495076 - City of Houston

Attachments:

10495076_24b.docx

Hi Miguel,

Again apologies for the delayed response. As for the first email, yes, it is because Cole Creek is less than 300 feet to Segment 1017. And as for the second email- I just made a mistake and left out Above Tidal, and that should be in there, so thank you for letting me know. Attached is a revised memo.

Thanks! Michelle

From: Miguel Mercado < Mguel. Mercado@tceq.texas.gov>

Sent: Thursday, May 16, 2024 4:22 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov>

Subject: RE: WQ0010495076 - City of Houston

Hi Michelle,

Sorry, I have one more question. Can I state the discharge route as "to Cole Creek, thence to Whiteoak Bayou **Above Tidal** in Segment No. 1017 of the San Jacinto River Basin"?

Thank you, Miguel

From: Miguel Mercado

Sent: Wednesday, May 15, 2024 3:06 PM

To: Michelle Labrie < Michelle.Labrie@tceq.texas.gov >

Subject: WQ0010495076 - City of Houston

Good afternoon Michelle,

I hope you are doing well. The Standards Memo did not include the unclassified receiving water use for Cole Creek. I need to verify if it was because the discharge to Cole Creek is less than 300 feet to 1017?

Thank you, Miguel

Miguel Mercado

From:

Deba Dutta

Sent:

Tuesday, May 7, 2024 10:48 AM

To:

Miguel Mercado

Cc:

Deba Dutta

Subject:

FW: Renewal for Permit WQ0010495076 - City of Houston ERC Part C

Attachments:

WQ0010495076 - City of Houston ERC Part C Memo.docx

Approved.

Thanks.

Deba

From: Miguel Mercado < Mguel. Mercado@tceq.texas.gov>

Sent: Tuesday, May 7, 2024 10:22 AM

To: Deba Dutta < Deba. Dutta @tceq.texas.gov>

Subject: Renewal for Permit WQ0010495076 - City of Houston ERC Part C

Good morning Deba,

Attached are the ERC Part C Memo for your review.

Thank you,

Miguel

EXECUTIVE REVIEW COMMITTEE, PART C

May 7, 2024

City of Houston, TCEQ Permit No. WQ0010495146

Reason brought to ERC:

Court Order (Final Judgement-After Hearing/Trial). Civil Action No.4:18-cv-03368.

Issues:

Failed to prevent an unauthorized discharge of sewage into or adjacent to any water in the

state.

Effluent Data:

Average for November 2021 through November 2023

<u>Parameter</u>	Average of Daily Avg	Effluent Limit
Flow, MGD	8.8	18
CBOD ₅ , mg/l	2.3	10
TSS, mg/l	2.4	15
NH ₃ -N, mg/l	1.2	3
E. coli, CFU or	1.0	63
MPN per 100 ml		

Current Permit Action:

Renewal

Operator Classification:

A

Court Order Status:

On March 31, 2021, the U.S. District Court for the Southern District of Texas approved entry of a Consent Decree (Civil Action No.4:18-cv-03368) embodying the agreement of the City of Houston with the United States Environmental Protection Agency and the State of Texas to improve the City's Wastewater Treatment and Collection System including requirements to address sanitary sewer overflows and wastewater treatment plant permit exceedances. The consent decree provides formal authorization for the City to continue and build upon its prior and ongoing work for wastewater assessment and rehabilitation programs over the next 15 years. Details of the approved consent decree are posted on the City's website at https://www.publicworks.houstontx.gov/.

Input from Region:

The Region was not contacted since this is a common consent decree from the U.S District Court for all the wastewater treatment facilities of the City.

Input from Applicant:

Applicant was not contacted since this is a common consent decree from the U.S District Court for all the wastewater treatment facilities of the City.

Recommendation:

Based on the Civil Action, CH, and DMR, it is recommended to proceed with no changes.

Attachments:

Compliance History

The TCEQ is committed to accessibility. To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.



Compliance History Report

Compliance History Report for CN600128995, RN101610665, Rating Year 2023 which includes Compliance History (CH) components from September 1, 2018, through August 31, 2023.

Customer, Respondent, or Owner/Operator:	CN600128995, City of Houst	con	Classification: SATISFAC	TORY Rating	J: 8.47
Regulated Entity:	RN101610665, NORTHWEST	WWTP	Classification: SATISFAC	TORY Rating	J: 12.29
Complexity Points:	11		Repeat Violator: NO		
CH Group:	08 - Sewage Treatment Facili	ities	1919)41 - 1		
Location:	5423 MANGUM RD HOUSTON	N, TX 77091-	5126, HARRIS COUNTY		
TCEQ Region:	REGION 12 - HOUSTON				
ID Number(s): AIR NEW SOURCE PERMITS HG3799H	S ACCOUNT NUMBER	STORM	IWATER PERMIT TXR05FF62		
WASTEWATER PERMIT WQ0	010495076	WASTI	WATER EPA ID TX0063011		
WASTEWATER AUTHORIZATION INDUSTRIAL AND HAZARD			TRIAL AND HAZARDOUS W TATION # (SWR) 87386	ASTE SOLID WASTE	Ē
TXR000057018	1 0 1 1 0 000				20/21/2022
Compliance History Peri	od: September 01, 2018 to A	August 31, 202	Rating Year: 2023	Rating Date:	09/01/2023
Date Compliance History	Report Prepared: Febr	uary 12, 2024			
Agency Decision Requiri	ng Compliance History:		ance, renewal, amendment, roor revocation of a permit.	modification, denial,	
Component Period Selec	ted: December 01, 2018 to	o February 12,	2024		
TCEQ Staff Member to Co	ontact for Additional Info	ormation Re	egarding This Complianc	e History.	
Name: PT			Phone: (512) 239-	3581	
Management of the Control of the Con					
Site and Owner/Oner	ator History				

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period?

YES

2) Has there been a (known) change in ownership/operator of the site during the compliance period?

NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

Effective Date: 04/01/2021

COURTORDER (Final Judgement-After Hearing/Trial)

Classification: Major

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)(1)

30 TAC Chapter 305, SubChapter F 305.125(1)

Rqmt Prov: Permit Conditions No. 2.g PERMIT

Description: Failed to prevent an unauthorized discharge of sewage into or adjacent to any water in the state.

See addendum for information regarding federal actions.

B. Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	December 18, 2018	(1545986)
Item 2	January 15, 2019	(1561987)
Item 3	February 19, 2019	(1561985)
Item 4	March 18, 2019	(1561986)
Item 5	April 16, 2019	(1572584)
Item 6	May 17, 2019	(1584779)
Item 7	June 20, 2019	(1584780)
Item 8	July 18, 2019	(1593930)
Item 9	August 15, 2019	(1600255)
Item 10	September 20, 2019	(1607149)
Item 11	November 18, 2019	(1619812)
Item 12	December 17, 2019	(1627173)
Item 13	January 21, 2020	(1634810)
Item 14	March 17, 2020	(1647931)
Item 15	April 20, 2020	(1654285)
Item 16	May 15, 2020	(1660850)
Item 17	June 03, 2020	(1640041)
Item 18	June 12, 2020	(1667383)
Item 19	July 20, 2020	(1674333)
Item 20	September 16, 2020	(1687677)
Item 21	September 22, 2020	(1681107)
Item 22	November 18, 2020	(1714725)
Item 23	November 24, 2020	(1678212)
Item 24	December 18, 2020	(1714726)
Item 25	January 20, 2021	(1714727)
Item 26	February 17, 2021	(1727790)
Item 27	April 19, 2021	(1727792)
Item 28	May 18, 2021	(1741196)
Item 29	July 20, 2021	(1752457)
Item 30	August 19, 2021	(1757886)
Item 31	September 21, 2021	(1767111)
Item 32	October 19, 2021	(1777585)
Item 33	November 16, 2021	(1784384)
Item 34	December 16, 2021	(1791414)
Item 35	January 18, 2022	(1799196)
Item 36	April 19, 2022	(1820712)
Item 37	June 17, 2022	(1835841)
Item 38	July 20, 2022	(1843042)
Item 39	August 17, 2022	(1849171)
Item 40	September 16, 2022	(1856971)
Item 41	October 14, 2022	(1840993)
Item 42	October 18, 2022	(1863329)
Item 43	February 07, 2023	(1860745)
Item 44	February 20, 2023	(1890722)
Item 45	March 17, 2023	(1899288)
Item 46	March 28, 2023	(1894540)
Item 47	September 19, 2023	(1939925)
Item 48	October 20, 2023	(1946767)
Item 49	December 15, 2023	(1962228)
Item 50	February 07, 2024	(1944469)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

Date: 03/31/2023 (1906093) 1

> Self Report? YES Classification: Moderate

Citation:

2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1) Failure to meet the limit for one or more permit parameter Description:

Compliance History Report for CN600128995, RN101610665, Rating Year 2023 which includes Compliance History (CH) components from December 01, 2018, through February 12, 2024.

2 04/30/2023 (1913248)

> Self Report? YES Classification: Moderate

2D TWC Chapter 26, SubChapter A 26.121(a) Citation: 30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to meet the limit for one or more permit parameter

3 05/31/2023 (1919858)

> Self Report? YES Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)

30 TAC Chapter 305, SubChapter F 305.125(1)

Failure to meet the limit for one or more permit parameter Description:

06/30/2023 (1926822)

Self Report? YES Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)

Failure to meet the limit for one or more permit parameter Description:

5 Date: 07/31/2023 (1933781)

> Self Report? YES Moderate Classification:

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to meet the limit for one or more permit parameter

10/31/2023 (1952457) 6 Date:

> Self Report? YES Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)

30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to meet the limit for one or more permit parameter

F. Environmental audits:

N/A

G. Type of environmental management systems (EMSs):

H. Voluntary on-site compliance assessment dates:

I. Participation in a voluntary pollution reduction program:

J. Early compliance:

N/A

Sites Outside of Texas:

Miguel Mercado

From: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov>

Sent: Friday, May 10, 2024 8:14 AM

To: Miguel Mercado

Cc: Samarneh, Walid - HPW

Subject: RE: WQ0010495076 - City of Houston technical review

Follow Up Flag: Follow up

Flag Status: Flagged

Good morning Miguel,

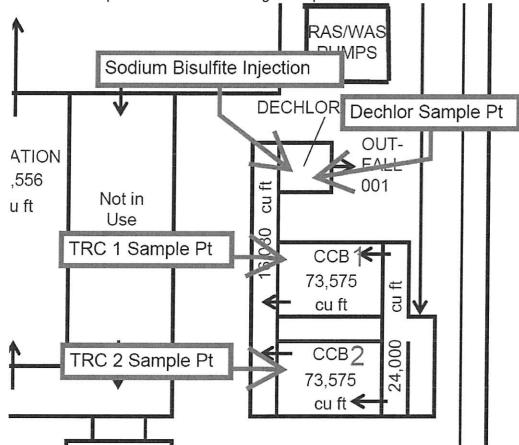
Please accept the following in response to your Technical Review of the application for the Northwest WWTF.

Treatment Process

 The facility was modified from the complete mix mode to extended aeration. The RAS channel was converted to an aeration basin and the return sludge is now pumped to the influent channel.

Treatment Units

Here is a markup of the schematic showing the requested details.



Compliance History

During the noted timeframe, there were nine Ecoli violations. The cause of seven of those violations could not be determined. In 2022 into 2023, sample contamination was suspected by one of the sample technicians. While it was suspected that a particular sample technician's technique was contaminating samples, it could not be confirmed. As such, all results from samples collected by that sample technician were reported. The technician was retrained on multiple occasions. The two remaining violations were due to issues with the chlorine pump.

Date	Cause
2/2/2022	Undetermined
4/21/2022	Undetermined
4/22/2022	Undetermined
11/29/2022	Undetermined
3/29/2023	Undetermined
5/15/2023	Pump priming failures
6/21/2023	Undetermined
7/13/2023	Unknown – SCADA outage
10/19/2023	Pump failure – suction line leak

Please let me know if you have additional questions or need more information.

Thank you, Heather

Heather Maloney

Environmental Investigator V, Houston Public Works 832-395-5756



From: Miguel Mercado < Mguel. Mercado@tceq.texas.gov>

Sent: Tuesday, May 7, 2024 9:14 AM

To: Samarneh, Walid - HPW <Walid.Samarneh@houstontx.gov>; Maloney, Heather - HPW

<Heather.Maloney@houstontx.gov>

Subject: WQ0010495076 - City of Houston technical review

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.] Good morning

My name is Miguel A. Mercado, I am the permit writer assigned to this application. Below are the items needed to complete my technical review:

Technical Report Data Completeness Review - Domestic Wastewater Permit Application

- Domestic Technical Report 1.0, Section 2. Treatment Process
 - Subsection A. Treatment process description: Need to verify if the plant operates in the
 active sludge extended aeration mode, for the fact sheet of the current permit documents the
 facility operates in the active sludge complete mix mode.
 - o **Subsection B. Treatment units:** Can you please provide more details on the chlorination and dechlorination process. Need to clarify if there are two chlorine contact chambers and if the chlorine is sampled at each chlorine contact chamber or at the end of the effluent channel? Where does the dechlorination occur and sampled?
- Compliance History Report:

Can you provide information that might help explain the cause of the *E. coli* Daily Max violations in February 2022, April 2022, November 2022, March 2023, May 2023, June 2023, July 2023, and October 2023? Were any corrective actions been taken?

Please provide this information by May 21, 2024, let me know if you have any questions. Thank you for your time and have a great day.

Miguel A. Mercado Municipal Permits Team Water Quality Division Texas Commission on Environmental Quality (512) 239-4547 | miguel.mercado@tceq.texas.gov



For status of permit, visit www.tceq.texas.gov/goto/cid.

Miguel Mercado

From:

Miguel Mercado

Sent:

Tuesday, May 7, 2024 9:14 AM

To:

walid.samarneh@houstontx.gov; Heather.Maloney@houstontx.gov

Subject:

WQ0010495076 - City of Houston technical review

Good morning

My name is Miguel A. Mercado, I am the permit writer assigned to this application. Below are the items needed to complete my technical review:

Technical Report Data Completeness Review - Domestic Wastewater Permit Application

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 facility operates in the active sludge complete mix mode.
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- Compliance History Report:
 - Can you provide information that might help explain the cause of the *E. coli* Daily Max violations in February 2022, April 2022, November 2022, March 2023, May 2023, June 2023, July 2023, and October 2023? Were any corrective actions been taken?

Please provide this information by May 21, 2024, let me know if you have any questions. Thank you for your time and have a great day.

Miguel A. Mercado Municipal Permits Team Water Quality Division Texas Commission on Environmental Quality (512) 239-4547 | miguel.mercado@tceq.texas.gov



For status of permit, visit www.tceq.texas.gov/goto/cid.

DMR DATA

WQ0010495076 - CITY OF HOUSTON

				reported Measure	reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	DAILY AV (mg/L)	DAILY MX (mg/L)	DAILY AV (Ib/d)
X0063011		001A	BOD, carbonaceous [5 day, 20 C]	42	2	<132
	12/31/2018	001A	BOD, carbonaceous [5 day, 20 C]	42	5	<187
		001A	BOD, carbonaceous [5 day, 20 C]	42	4	<232
		001A	BOD, carbonaceous [5 day, 20 C]	42	2	<171
	3/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2	8	146
LX0063011	4/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	2	4	183
	5/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	2	4	236
TX0063011	6/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	3	8	252
TX0063011	7/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	42	2	<143
	8/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<141
	9/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	<2	9	<235
	10/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	<2	2	<160
	11/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<150
	12/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	<2	4	<118
TX0063011	1/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	5	20	342
TX0063011	2/29/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	9	264
20-20		001A	BOD, carbonaceous [5 day, 20 C]	3	9	168
		001A	BOD, carbonaceous [5 day, 20 C]	3	5	259
		001A	BOD, carbonaceous [5 day, 20 C]	4	8	282
		001A	BOD, carbonaceous [5 day, 20 C]	3	2	258
		001A	BOD, carbonaceous [5 day, 20 C]	2	4	182
TX0063011	8/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	3	12	206
		001A	BOD, carbonaceous [5 day, 20 C]	2	5	290
		001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<153
TX0063011	11/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	3	5	209

TX0063011	12/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	8	4	240
TX0063011	1/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3	8	306
TX0063011	2/28/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	4	200
TX0063011	3/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	4	207
TX0063011	4/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	3	226
TX0063011	5/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2	9	379
TX0063011	6/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<270
TX0063011	7/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<304
TX0063011	8/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	<2	9	<199
TX0063011	9/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	<2	4	<210
TX0063011	10/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	7	4	<198
TX0063011	11/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	7	9	<187
TX0063011	12/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	<2	4	<171
TX0063011	1/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	8	>12	<249
TX0063011	2/28/2022	001A	BOD, carbonaceous [5 day, 20 C]	42	3	<181
TX0063011	3/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	<2	5	<172
TX0063011	4/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	2	4	140
TX0063011	5/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<162
TX0063011	6/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	<2	2	<141
TX0063011	7/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<127
TX0063011	8/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	<3	6	<181
TX0063011	9/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	<2	4	<135
TX0063011	10/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	8	>13	<183
TX0063011	11/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	7	<3	<167
TX0063011	12/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	42	>11	<169
TX0063011	1/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	5	<166
TX0063011	2/28/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<138
TX0063011	3/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<120
TX0063011	4/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	3	>12	282
TX0063011	5/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	5	<303
TX0063011	6/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	<3	<220
TX0063011	7/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	<3	<174
TX0063011	8/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	<3	6	<170
TX0063011	9/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	3	4	165
TX0063011	10/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	3	3	180
TX0063011	11/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	<2	3	<187
			2 YEAR AVERAGE	2.28	5.40	178.80

TX0063011	7/31/2021	001A	E. coli	<1	3
TX0063011	8/31/2021	001A	E. coli	<1	8
TX0063011	9/30/2021	001A	E. coli	-1	13
TX0063011	10/31/2021	001A	E. coli	<2	78
TX0063011	11/30/2021	001A	E. coli	<1	33
TX0063011	12/31/2021	001A	E. coli	<1	29
TX0063011	1/31/2022	001A	E. coli	<2	122
TX0063011	2/28/2022	001A	E. coli	<2	435
TX0063011	3/31/2022	001A	E. coli	42	121
TX0063011	4/30/2022	001A	E. coli	<2	2420
TX0063011	5/31/2022	001A	E. coli	<1	140
TX0063011	6/30/2022	001A	E. coli	<1	33
TX0063011	7/31/2022	001A	E. coli	<1	194
TX0063011	8/31/2022	001A	E. coli	<1	14
TX0063011	9/30/2022	001A	E. coli	<1	4
TX0063011	10/31/2022	001A	E. coli	<1	6
TX0063011	11/30/2022	001A	E. coli	<2	1200
TX0063011	12/31/2022	001A	E. coli	<2	88
TX0063011	1/31/2023	001A	E. coli	<1	34
TX0063011	2/28/2023	001A	E. coli	<1	2
TX0063011	3/31/2023	001A	E. coli	<1	345
TX0063011	4/30/2023	001A	E. coli	<1	68
TX0063011	5/31/2023	001A	E. coli	<2	2420
TX0063011	6/30/2023	001A	E. coli	<2	1990
TX0063011	7/31/2023	001A	E. coli	<1	272
TX0063011	8/31/2023	001A	E. coli	<1	2
TX0063011	9/30/2023	001A	E. coli	<1	11
TX0063011	10/31/2023	001A	E. coli	2	>2420
TX0063011	11/30/2023	001A	E. coli	<1	39
			2 YEAR GEOMEAN	1.28	87.00
			5 YEAR GEOMEAN	1.19	25.71

EPA ID				Reported Measure	Reported Measure Reported Measure
	Monitoring Period Outfall F	Outfall	Parameter	DAILY AV (MGD)	DAILY MX (MGD)
TX0063011	11/30/2018	001A	Flow, in conduit or thru treatment plant	6.75	17.16
TX0063011	12/31/2018	001A	Flow, in conduit or thru treatment plant	9.48	18.2

TX0063011 2/28/2019 TX0063011 3/31/2019 TX0063011 4/30/2019 TX0063011 6/30/2019 TX0063011 6/30/2019 TX0063011 6/30/2019 TX0063011 7/31/2019 TX0063011 7/31/2019 TX0063011 10/31/2019 TX0063011 1/30/2019 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 6/30/2020 TX0063011 6/30/2020 TX0063011 6/30/2020 TX0063011 10/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2020 TX0063011 1/31/2021 TX0063011 1/31/2021 TX0063011 1/31/2021 TX0063011 1/31/2021 TX0063011 1/31/2021 TX0063011 1/31/2021 <th>001A</th> <th>Flow, in conduit or thru treatment plant</th> <th>10.04</th> <th>16.22</th>	001A	Flow, in conduit or thru treatment plant	10.04	16.22
		יוסיי, יון סטוימטור טו מווים וויסטווביוו אומוו	10.04	16.72
		Classic in the Control of the Contro		
		Flow, in conduit or thru treatment plant	8.43	9.72
		Flow, in conduit or thru treatment plant	8.97	26.52
		Flow, in conduit or thru treatment plant	10.72	32.45
		Flow, in conduit or thru treatment plant	9.46	25.21
	001A	Flow, in conduit or thru treatment plant	8.10	15.24
	001A	Flow, in conduit or thru treatment plant	7.46	17.39
	001A	Flow, in conduit or thru treatment plant	11.14	55.87
	001A	Flow, in conduit or thru treatment plant	8.26	18.65
	001A	Flow, in conduit or thru treatment plant	8.18	28.78
	001A	Flow, in conduit or thru treatment plant	6.14	7.72
	001A	Flow, in conduit or thru treatment plant	7.67	12.65
	001A	Flow, in conduit or thru treatment plant	7.43	14.65
		Flow, in conduit or thru treatment plant	7.01	8 92
	001A	Flow, in conduit or thru treatment plant	9.40	18.33
		Flow, in conduit or thru treatment plant	60.6	21.04
		Flow, in conduit or thru treatment plant	10.33	27.78
		Flow, in conduit or thru treatment plant	9.04	15.05
		Flow, in conduit or thru treatment plant	8.73	17.28
		Flow, in conduit or thru treatment plant	11.83	57.18
		Flow, in conduit or thru treatment plant	8.32	10.73
		Flow, in conduit or thru treatment plant	8.75	28.56
	001A	Flow, in conduit or thru treatment plant	11.44	28.06
		Flow, in conduit or thru treatment plant	12.82	34.93
		Flow, in conduit or thru treatment plant	10.33	18.07
		Flow, in conduit or thru treatment plant	10.60	13.91
	001A	Flow, in conduit or thru treatment plant	10.28	34.42
	001A	Flow, in conduit or thru treatment plant	17.08	38.08
	001A	Flow, in conduit or thru treatment plant	14.89	32.72
	001A	Flow, in conduit or thru treatment plant	16.59	39.96
	001A	Flow, in conduit or thru treatment plant	10.71	16.14
	001A	Flow, in conduit or thru treatment plant	11.58	21.77
TX0063011 10/31/2021	001A	Flow, in conduit or thru treatment plant	10.31	27.51
	94000	Flow, in conduit or thru treatment plant	9.30	17.42
12	001A	Flow, in conduit or thru treatment plant	9.09	23.79
TX0063011 1/31/2022	001A	Flow, in conduit or thru treatment plant	10.46	36.69

TX0063011	2/28/2022	001A	Flow, in conduit or thru treatment plant	9.48	12.34
TX0063011	3/31/2022	001A	Flow, in conduit or thru treatment plant	8.66	19.99
TX0063011	4/30/2022	001A	Flow, in conduit or thru treatment plant	7.37	15.63
TX0063011	5/31/2022	001A	Flow, in conduit or thru treatment plant	9.21	15.52
TX0063011	6/30/2022	001A	Flow, in conduit or thru treatment plant	7.67	10.92
TX0063011	7/31/2022	001A	Flow, in conduit or thru treatment plant	6.72	9.42
TX0063011	8/31/2022	001A	Flow, in conduit or thru treatment plant	8.08	14.52
TX0063011	9/30/2022	001A	Flow, in conduit or thru treatment plant	69.9	12.68
TX0063011	10/31/2022	001A	Flow, in conduit or thru treatment plant	7.23	14.28
TX0063011	11/30/2022	001A	Flow, in conduit or thru treatment plant	8.76	20.9
TX0063011	12/31/2022	001A	Flow, in conduit or thru treatment plant	8.83	18.53
TX0063011	1/31/2023	001A	Flow, in conduit or thru treatment plant	8.08	22.04
TX0063011	2/28/2023	001A	Flow, in conduit or thru treatment plant	7.58	17.13
TX0063011	3/31/2023	001A	Flow, in conduit or thru treatment plant	6.88	9.43
TX0063011	4/30/2023	001A	Flow, in conduit or thru treatment plant	10.82	31.08
TX0063011	5/31/2023	001A	Flow, in conduit or thru treatment plant	14.18	39.28
TX0063011	6/30/2023	001A	Flow, in conduit or thru treatment plant	11.89	18
TX0063011	7/31/2023	001A	Flow, in conduit or thru treatment plant	9.00	24.17
TX0063011	8/31/2023	001A	Flow, in conduit or thru treatment plant	7.81	9.36
TX0063011	9/30/2023	001A	Flow, in conduit or thru treatment plant	7.35	10.07
TX0063011	10/31/2023	001A	Flow, in conduit or thru treatment plant	7.98	14.3
TX0063011	11/30/2023	001A	Flow, in conduit or thru treatment plant	10.32	20.76
			2 YEAR AVERAGE	8.78	18.33
			5 YEAR AVERAGE	9.49	21.59

EPA ID				Reported Measure	Reported Measure Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	DAILY AV (mg/L)	DAILY MX (mg/L)	DAILY AV (Ib/d)
TX0063011	11/30/2018	001A	Nitrogen, ammonia total [as N]	<1	2	<10
TX0063011	12/31/2018	001A	Nitrogen, ammonia total [as N]	<1	2	<25
TX0063011	1/31/2019	001A	Nitrogen, ammonia total [as N]	√.	1	52
TX0063011	2/28/2019	001A	Nitrogen, ammonia total [as N]	1	4	84
TX0063011	3/31/2019	001A	Nitrogen, ammonia total [as N]	<1	2	34
TX0063011	4/30/2019	001A	Nitrogen, ammonia total [as N]	1	2	81
TX0063011	5/31/2019	001A	Nitrogen, ammonia total [as N]	1	2	85
TX0063011	6/30/2019	001A	Nitrogen, ammonia total [as N]	2	4	162
TX0063011	7/31/2019	001A	Nitrogen, ammonia total [as N]	<1	3	<61

TX0063011	8/31/2019	001A	Nitrogen, ammonia total fas Ni	7	2	077
TX0063011	9/30/2019	001A	Nitrogen, ammonia total fas Ni		1 0	713
TX0063011	10/31/2019	001A	Nitrogen, ammonia total fas Ni	7 7	2 4	\$18
TX0063011	11/30/2019	001A	Nitrogen ammonia total [as N]	7 7	0 4	<23
TX0063011	12/31/2019	D01A	Nitrogen seminaria total for Ni	7 3		6>
TX0063011	1/31/2020	4100	Nitrogen, ammonio total for Ni	۲> ا	-	<4
TY0063044	0.00000000	2 5	Mitogeri, ammonia total [as N]	m	2	180
100000	2/29/2020	MLDO	Nitrogen, ammonia total [as N]	2	4	120
1 X0063011	3/31/2020	001A	Nitrogen, ammonia total [as N]		3	41
TX0063011	4/30/2020	001A	Nitrogen, ammonia total [as N]	-	4	06
TX0063011	5/31/2020	001A	Nitrogen, ammonia total [as N]	-	9	103
TX0063011	6/30/2020	001A	Nitrogen, ammonia total [as N]	7	2	<18
TX0063011	7/31/2020	001A	Nitrogen, ammonia total [as N]	7	-	<11
TX0063011	8/31/2020	001A	Nitrogen, ammonia total [as N]	₹	8	<30
TX0063011	9/30/2020	001A	Nitrogen, ammonia total [as N]	₹	-	<42
TX0063011	10/31/2020	001A	Nitrogen, ammonia total [as N]	₹	₹	<4 4
TX0063011	11/30/2020	001A	Nitrogen, ammonia total [as N]	4	2	28
TX0063011	12/31/2020	001A	Nitrogen, ammonia total [as N]	₹	5	<93
TX0063011	1/31/2021	001A	Nitrogen, ammonia total [as N]	₹	-	<14
FX0063011	2/28/2021	001A	Nitrogen, ammonia total [as N]	₹	12	<42
LX0063011	3/31/2021	001A	Nitrogen, ammonia total [as N]	₹	2	<18
FX0063011	4/30/2021	001A	Nitrogen, ammonia total [as N]	₹	3	<34
TX0063011	5/31/2021	001A	Nitrogen, ammonia total [as N]	₽	-	<33
FX0063011	6/30/2021	001A	Nitrogen, ammonia total [as N]	₹	_	<25
FX0063011	7/31/2021	001A	Nitrogen, ammonia total [as N]	₹	-	<23
LX0063011	8/31/2021	001A	Nitrogen, ammonia total [as N]	7	-	<15
TX0063011	9/30/2021	001A	Nitrogen, ammonia total [as N]	<u>^</u>	2	<28
X0063011	10/31/2021	001A	Nitrogen, ammonia total [as N]	4	9	<92
TX0063011	11/30/2021	001A	Nitrogen, ammonia total [as N]	₹	2	<12
TX0063011	12/31/2021	001A	Nitrogen, ammonia total [as N]		2	<23
TX0063011	1/31/2022	001A	Nitrogen, ammonia total [as N]	₽	7	<35
TX0063011	2/28/2022	001A	Nitrogen, ammonia total [as N]	7	2	33
TX0063011	3/31/2022	001A	Nitrogen, ammonia total [as N]	₹	2	39
FX0063011	4/30/2022	001A	Nitrogen, ammonia total [as N]	₽	4	<40
LX0063011	5/31/2022	001A	Nitrogen, ammonia total [as N]	₽	4	27
TX0063011	6/30/2022	001A	Nitrogen, ammonia total [as N]	₹	7	44
TX0063011	7/31/2022	001A	Nitrogen, ammonia total [as N]	₹	2	<19
TX0063011	8/31/2022	001A	Nitrogen, ammonia total [as N]	₽	4	<34

TX0063011	9/30/2022	001A	Nitrogen, ammonia total [as N]	<1	2	<15
TX0063011	10/31/2022	001A	Nitrogen, ammonia total [as N]	<1		<13
TX0063011	11/30/2022	001A	Nitrogen, ammonia total [as N]	<1	3	<31
TX0063011	12/31/2022	001A	Nitrogen, ammonia total [as N]	<1	3	<30
TX0063011	1/31/2023	001A	Nitrogen, ammonia total [as N]	<1	1	<12
TX0063011	2/28/2023	001A	Nitrogen, ammonia total [as N]	<1	<1	<5
TX0063011	3/31/2023	001A	Nitrogen, ammonia total [as N]	1	3	34
TX0063011	4/30/2023	001A	Nitrogen, ammonia total [as N]	1	4	83
TX0063011	5/31/2023	001A	Nitrogen, ammonia total [as N]	<1	2	<25
TX0063011	6/30/2023	001A	Nitrogen, ammonia total [as N]	<1	1	<29
TX0063011	7/31/2023	001A	Nitrogen, ammonia total [as N]	1	3	85
TX0063011	8/31/2023	001A	Nitrogen, ammonia total [as N]	3	6	172
TX0063011	9/30/2023	001A	Nitrogen, ammonia total [as N]	3	7	203
TX0063011	10/31/2023	001A	Nitrogen, ammonia total [as N]	<1	3	38
TX0063011	11/30/2023	001A	Nitrogen, ammonia total [as N]	<٠	2	<19
			2 YEAR AVERAGE	1.16	3.00	42.40
			5 YEAR AVERAGE	1.13	2.97	46.08

EPA ID				Reported Measure
	Monitoring Period	Outfall	Parameter	MO MIN (mg/L)
TX0063011	11/30/2018	001A	Oxygen, dissolved [DO]	6.7
TX0063011	12/31/2018	001A	Oxygen, dissolved [DO]	5.9
TX0063011	1/31/2019	001A	Oxygen, dissolved [DO]	2
TX0063011	2/28/2019	001A	Oxygen, dissolved [DO]	7.2
TX0063011	3/31/2019	001A	Oxygen, dissolved [DO]	6.4
TX0063011	4/30/2019	001A	Oxygen, dissolved [DO]	9
TX0063011	5/31/2019	001A	Oxygen, dissolved [DO]	5.8
TX0063011	6/30/2019	001A	Oxygen, dissolved [DO]	4.6
TX0063011	7/31/2019	001A	Oxygen, dissolved [DO]	5
TX0063011	8/31/2019	001A	Oxygen, dissolved [DO]	5.2
TX0063011	9/30/2019	001A	Oxygen, dissolved [DO]	5
TX0063011	10/31/2019	001A	Oxygen, dissolved [DO]	5.8
TX0063011	11/30/2019	001A	Oxygen, dissolved [DO]	7.1
TX0063011	12/31/2019	001A	Oxygen, dissolved [DO]	6.9
TX0063011	1/31/2020	001A	Oxygen, dissolved [DO]	6.9
TX0063011	2/29/2020	001A	Oxygen, dissolved [DO]	5.1

				1
TX0063011	4/30/2020	001A	Oxygen, dissolved [DO]	6.7
TX0063011	5/31/2020	001A	Oxygen, dissolved [DO]	6.4
TX0063011	6/30/2020	001A	Oxygen, dissolved [DO]	
TX0063011	7/31/2020	001A	Oxygen, dissolved [DO]	5.6
TX0063011	8/31/2020	001A	Oxygen, dissolved [DO]	6.1
TX0063011	9/30/2020	001A	Oxygen, dissolved [DO]	5.6
TX0063011	10/31/2020	001A	Oxygen, dissolved [DO]	5.9
TX0063011	11/30/2020	001A	Oxygen, dissolved [DO]	5.6
TX0063011	12/31/2020	001A	Oxygen, dissolved [DO]	9
TX0063011	1/31/2021	001A	Oxygen, dissolved [DO]	6.5
TX0063011	2/28/2021	001A	Oxygen, dissolved [DO]	6.9
TX0063011	3/31/2021	001A	Oxygen, dissolved [DO]	7
TX0063011	4/30/2021	001A	Oxygen, dissolved [DO]	7
TX0063011	5/31/2021	001A	Oxygen, dissolved [DO]	6.3
TX0063011	6/30/2021	001A	Oxygen, dissolved [DO]	6.2
TX0063011	7/31/2021	001A	Oxygen, dissolved [DO]	6.1
TX0063011	8/31/2021	001A	Oxygen, dissolved [DO]	5.7
TX0063011	9/30/2021	001A	Oxygen, dissolved [DO]	5.4
TX0063011	10/31/2021	001A	Oxygen, dissolved [DO]	9
FX0063011	11/30/2021	001A	Oxygen, dissolved [DO]	6.4
FX0063011	12/31/2021	001A	Oxygen, dissolved [DO]	6.1
TX0063011	1/31/2022	001A	Oxygen, dissolved [DO]	6.2
TX0063011	2/28/2022	001A	Oxygen, dissolved [DO]	7.1
TX0063011	3/31/2022	001A	Oxygen, dissolved [DO]	6.8
TX0063011	4/30/2022	001A	Oxygen, dissolved [DO]	6.3
TX0063011	5/31/2022	001A	Oxygen, dissolved [DO]	6.3
TX0063011	6/30/2022	001A	Oxygen, dissolved [DO]	6.1
TX0063011	7/31/2022	001A	Oxygen, dissolved [DO]	5.9
TX0063011	8/31/2022	001A	Oxygen, dissolved [DO]	5.8
TX0063011	9/30/2022	001A	Oxygen, dissolved [DO]	5.5
TX0063011	10/31/2022	001A	Oxygen, dissolved [DO]	5.6
TX0063011	11/30/2022	001A	Oxygen, dissolved [DO]	6.1
TX0063011	12/31/2022	001A	Oxygen, dissolved [DO]	5.8
TX0063011	1/31/2023	001A	Oxygen, dissolved [DO]	9
TX0063011	2/28/2023	001A	Oxygen, dissolved [DO]	5.9
TVOCSOAA	00000000			

TX0063011	4/30/2023	001A	Oxygen, dissolved [DO] 6.5	.5
TX0063011	5/31/2023	001A	Oxygen, dissolved [DO]	.3
TX0063011	6/30/2023	001A	Oxygen, dissolved [DO] 5.8	8.
TX0063011	7/31/2023	001A	Oxygen, dissolved [DO]	9:
TX0063011	8/31/2023	001A	Oxygen, dissolved [DO]	.5
TX0063011	9/30/2023	001A	Oxygen, dissolved [DO]	.3
TX0063011	10/31/2023	001A	Oxygen, dissolved [DO]	8.
TX0063011	11/30/2023	001A	Oxygen, dissolved [DO]	8:
			2 YEAR AVERAGE 6.0	6.02
			5 YEAR AVERAGE 6.0	6.07

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	MINIMUM (SU)	MAXIMUM (SU)
TX0063011	11/30/2018	001A	нф	6.8	7.3
TX0063011	12/31/2018	001A	Hd	9.9	7.5
TX0063011	1/31/2019	001A	Hd	6.3	7.5
TX0063011	2/28/2019	001A	Hd	6.8	7.4
TX0063011	3/31/2019	001A	Hd	6.7	7.3
TX0063011	4/30/2019	001A	Hd	6.8	7.4
TX0063011	5/31/2019	001A	Hd	6.8	7.6
TX0063011	6/30/2019	001A	Hd	6.7	7.4
TX0063011	7/31/2019	001A	Hd	6.9	7.7
TX0063011	8/31/2019	001A	Hd	6.9	7.4
TX0063011	9/30/2019	001A	Hd	6.2	7.5
TX0063011	10/31/2019	001A	Hd	7	7.8
TX0063011	11/30/2019	001A	Нd	6.9	7.8
TX0063011	12/31/2019	001A	Hd	6.8	7.4
TX0063011	1/31/2020	001A	Hd	6.7	7.4
TX0063011	2/29/2020	001A	Hd	7	7.6
TX0063011	3/31/2020	001A	Hd	6.9	7.5
TX0063011	4/30/2020	001A	Hd	6.6	9.7
TX0063011	5/31/2020	001A	Hd	6.7	7.7
TX0063011	6/30/2020	001A	Hd	6.8	7.9
TX0063011	7/31/2020	001A	Hd	6.7	7.4
TX0063011	8/31/2020	001A	Hd	6.7	7.4
TX0063011	9/30/2020	001A	Hd	9	8.2

TX0063011	10/31/2020	4400	53.9		
	0.000	3	Hd	6.4	7.5
TX0063011	11/30/2020	001A	Hd	6.7	7.7
TX0063011	12/31/2020	001A	Hd	6.2	8.3
TX0063011	1/31/2021	001A	Hd	6.8	6.2
TX0063011	2/28/2021	001A	Hd	6.3	7.5
TX0063011	3/31/2021	001A	Hd	6.7	7.4
TX0063011	4/30/2021	001A	Ha	6.9	7.5
TX0063011	5/31/2021	001A	Hd	6.4	7.8
TX0063011	6/30/2021	001A	Hd	7	7.7
TX0063011	7/31/2021	001A	Hd	6.9	7.7
TX0063011	8/31/2021	001A	Hd		7.8
TX0063011	9/30/2021	001A	Н	6.9	7.6
TX0063011	10/31/2021	001A	Н	6.9	7.6
TX0063011	11/30/2021	001A	Н	6.4	7.7
TX0063011	12/31/2021	001A	Hd	6.9	7.6
TX0063011	1/31/2022	001A	Hd	6.9	7.7
TX0063011	2/28/2022	001A	Hd	7	6 2
TX0063011	3/31/2022	001A	Hd	6.5	7.7
TX0063011	4/30/2022	001A	Hd	6.4	7.6
TX0063011	5/31/2022	001A	Н	6.7	7.7
TX0063011	6/30/2022	001A	Hd	6.9	7.9
TX0063011	7/31/2022	001A	Hd	6.5	7.5
TX0063011	8/31/2022	001A	Н	6.7	7.5
TX0063011	9/30/2022	001A	Н	6.8	7.5
TX0063011	10/31/2022	001A	Н	6.9	7.6
TX0063011	11/30/2022	001A	Hd	6.9	7.6
TX0063011	12/31/2022	001A	Hd	6.9	7.5
TX0063011	1/31/2023	001A	Н	6.8	7.5
TX0063011	2/28/2023	001A	Н	7	7.5
TX0063011	3/31/2023	001A	Н	7.1	7.6
TX0063011	4/30/2023	001A	Н	6.9	7.6
TX0063011	5/31/2023	001A	Н	2	7.6
TX0063011	6/30/2023	001A	Н	6.9	7.8
TX0063011	7/31/2023	001A	Hd	6.8	7.4
TX0063011	8/31/2023	001A	Hd	6.5	7.6
TX0063011	9/30/2023	001A	Hd	6.6	7.6
TX0063011	10/31/2023	001A	Hd	6.9	7.8

				The state of the s	Committee of the Commit
TX0063011	11/30/2023	001A	Hd	6.9	7.5
			2 YEAR AVERAGE	6.79	7.62
			5 YEAR AVERAGE	6.74	7.61

EPAID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	DAILY AV (mg/L)	DAILY MX (mg/L)	DAILY AV (Ib/d)
TX0063011	11/30/2018	001A	Solids, total suspended	<2	3	<123
TX0063011	12/31/2018	001A	Solids, total suspended	\$	6	<205
TX0063011	1/31/2019	001A	Solids, total suspended	7	7	<269
TX0063011	2/28/2019	001A	Solids, total suspended	<2	3	<174
TX0063011	3/31/2019	001A	Solids, total suspended	<2	3	<145
TX0063011	4/30/2019	001A	Solids, total suspended	7	4	<177
TX0063011	5/31/2019	001A	Solids, total suspended	<3	14	<368
TX0063011	6/30/2019	001A	Solids, total suspended	~	4	<180
TX0063011	7/31/2019	001A	Solids, total suspended	<2	3	<138
TX0063011	8/31/2019	001A	Solids, total suspended	7	5	<139
TX0063011	9/30/2019	001A	Solids, total suspended	<3	10	<370
TX0063011	10/31/2019	001A	Solids, total suspended	<2	9	<163
TX0063011	11/30/2019	001A	Solids, total suspended	<2	5	<167
TX0063011	12/31/2019	001A	Solids, total suspended	<2	4	<115
TX0063011	1/31/2020	001A	Solids, total suspended	6	41	637
TX0063011	2/29/2020	001A	Solids, total suspended	4	6	284
TX0063011	3/31/2020	001A	Solids, total suspended	3	10	198
TX0063011	4/30/2020	001A	Solids, total suspended	4	10	326
TX0063011	5/31/2020	001A	Solids, total suspended	4	10	297
TX0063011	6/30/2020	001A	Solids, total suspended	4	11	333
TX0063011	7/31/2020	001A	Solids, total suspended	<2	9	<171
TX0063011	8/31/2020	001A	Solids, total suspended	<2	12	<174
TX0063011	9/30/2020	001A	Solids, total suspended	<3	22	<577
TX0063011	10/31/2020	001A	Solids, total suspended	3	5	177
TX0063011	11/30/2020	001A	Solids, total suspended	3	6	285
TX0063011	12/31/2020	001A	Solids, total suspended	3	2	362
TX0063011	1/31/2021	001A	Solids, total suspended	4	16	509
TX0063011	2/28/2021	001A	Solids, total suspended	4	18	342
TX0063011	3/31/2021	001A	Solids, total suspended	3	9	253
TX0063011	4/30/2021	001A	Solids, total suspended	3	5	261

LINCONN	373 172021	200	Solids, total suspended	4	17	557
TX0063011	6/30/2021	001A	Solids, total suspended	. 0	. 4	37.07
TX0063011	7/31/2021	001A	Solids, total suspended	0	1 4	2311
TX0063011	8/31/2021	001A	Solids, total suspended	' 0		7907
TX0063011	9/30/2021	001A	Solids, total suspended	10	1 =	104
FX0063011	10/31/2021	001A	Solids, total suspended	4 0	7 0	2200
TX0063011	11/30/2021	001A	Solids, total suspended	1 0	ט ע	7117
FX0063011	12/31/2021	001A	Solids, total suspended	· 0	0 4	7474
TX0063011	1/31/2022	001A	Solids, total suspended	- E	r cc	261
TX0063011	2/28/2022	001A	Solids, total suspended	en	22. (220
TX0063011	3/31/2022	001A	Solids, total suspended	m	5 6	212
TX0063011	4/30/2022	001A	Solids, total suspended	\$	4	212 2142
FX0063011	5/31/2022	001A	Solids, total suspended	\$	4	<167
TX0063011	6/30/2022	001A	Solids, total suspended	\$	\$	<129
FX0063011	7/31/2022	001A	Solids, total suspended	\$	8	<116
FX0063011	8/31/2022	001A	Solids, total suspended	8	80	<174
TX0063011	9/30/2022	001A	Solids, total suspended	42	m	<119
FX0063011	10/31/2022	001A	Solids, total suspended	\$	4	<138
TX0063011	11/30/2022	001A	Solids, total suspended	8	2	<184
TX0063011	12/31/2022	001A	Solids, total suspended	42	4	<156
TX0063011	1/31/2023	001A	Solids, total suspended	8	12	225
TX0063011	2/28/2023	001A	Solids, total suspended	2	ro.	162
TX0063011	3/31/2023	001A	Solids, total suspended	2	4	134
FX0063011	4/30/2023	001A	Solids, total suspended	8	16	<304
FX0063011	5/31/2023	001A	Solids, total suspended	42	10	<304
TX0063011	6/30/2023	001A	Solids, total suspended	\$	2	<200
TX0063011	7/31/2023	001A	Solids, total suspended	\$	4	<167
TX0063011	8/31/2023	001A	Solids, total suspended	42	4	<149
TX0063011	9/30/2023	001A	Solids, total suspended	8	4	154
TX0063011	10/31/2023	001A	Solids, total suspended	4	9	239
TX0063011	11/30/2023	001A	Solids, total suspended	<2	4	<196
			2 YEAR AVERAGE	2.36	5.56	183.88
			5 YEAR AVERAGE	2 66	7 20	00.00

	Reported M
ring Period Outfall Pa	ameter INST MAX (

LYDDOSOLI	010200011	4 00	Cilicilic, total (colored	
TX0063011	12/31/2018	001A	Chlorine, total residual	0.04
TX0063011	1/31/2019	001A	Chlorine, total residual	0.08
TX0063011	2/28/2019	001A	Chlorine, total residual	0.03
TX0063011	3/31/2019	001A	Chlorine, total residual	0.03
TX0063011	4/30/2019	001A	Chlorine, total residual	0.05
TX0063011	5/31/2019	001A	Chlorine, total residual	0.05
TX0063011	6/30/2019	001A	Chlorine, total residual	0.03
TX0063011	7/31/2019	001A	Chlorine, total residual	0.04
TX0063011	8/31/2019	001A	Chlorine, total residual	0.03
TX0063011	9/30/2019	001A	Chlorine, total residual	0.04
TX0063011	10/31/2019	001A	Chlorine, total residual	0.03
TX0063011	11/30/2019	001A	Chlorine, total residual	0.03
TX0063011	12/31/2019	001A	Chlorine, total residual	0.04
TX0063011	1/31/2020	001A	Chlorine, total residual	0.03
TX0063011	2/29/2020	001A	Chlorine, total residual	0.04
TX0063011	3/31/2020	001A	Chlorine, total residual	0.04
TX0063011	4/30/2020	001A	Chlorine, total residual	0.07
TX0063011	5/31/2020	001A	Chlorine, total residual	0.03
TX0063011	6/30/2020	001A	Chlorine, total residual	0.04
TX0063011	7/31/2020	001A	Chlorine, total residual	0.03
TX0063011	8/31/2020	001A	Chlorine, total residual	0.05
TX0063011	9/30/2020	001A	Chlorine, total residual	0.05
TX0063011	10/31/2020	001A	Chlorine, total residual	0.04
TX0063011	11/30/2020	001A	Chlorine, total residual	0.07
TX0063011	12/31/2020	001A	Chlorine, total residual	90.06
TX0063011	1/31/2021	001A	Chlorine, total residual	0.03
TX0063011	2/28/2021	001A	Chlorine, total residual	0.05
TX0063011	3/31/2021	001A	Chlorine, total residual	0.03
TX0063011	4/30/2021	001A	Chlorine, total residual	0.03
TX0063011	5/31/2021	001A	Chlorine, total residual	0.04
TX0063011	6/30/2021	001A	Chlorine, total residual	0.05
TX0063011	7/31/2021	001A	Chlorine, total residual	0.08
TX0063011	8/31/2021	001A	Chlorine, total residual	0.04
TX0063011	9/30/2021	001A	Chlorine, total residual	0.04
TX0063011	10/31/2021	001A	Chlorine, total residual	0.03
***************************************			200 ACCO 100 DE GAS CONTROL DE CO	

LX0063011	12/31/2021	001A	Chlorine, total residual	0.07
TX0063011	1/31/2022	001A	Chlorine, total residual	0.04
TX0063011	2/28/2022	001A	Chlorine, total residual	0.03
TX0063011	3/31/2022	001A		0.04
TX0063011	4/30/2022	001A		0.03
TX0063011	5/31/2022	001A	Chlorine, total residual	0.04
TX0063011	6/30/2022	001A	Chlorine, total residual	0.04
TX0063011	7/31/2022	001A		0.04
TX0063011	8/31/2022	001A		0.04
TX0063011	9/30/2022	001A		0.04
TX0063011	10/31/2022	001A		0.04
TX0063011	11/30/2022	001A		0.04
TX0063011	12/31/2022	001A		0.05
TX0063011	1/31/2023	001A		0.04
TX0063011	2/28/2023	001A		0.05
TX0063011	3/31/2023	001A		0.04
TX0063011	4/30/2023	001A	Chlorine, total residual	0.05
TX0063011	5/31/2023	001A	Chlorine, total residual	0.04
TX0063011	6/30/2023	001A		0.07
TX0063011	7/31/2023	001A	Chlorine, total residual	0.05
TX0063011	8/31/2023	001A		0.05
TX0063011	9/30/2023	001A	Chlorine, total residual	0.06
TX0063011	10/31/2023	001A		0.05
TX0063011	11/30/2023	001A		0.06
			2 YEAR AVERAGE 0	0.05
			5 YEAR AVERAGE 0	0.04

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	MO MIN (ma/l.)
TX0063011	11/30/2018	001A	Chlorine, total residual	1
TX0063011	12/31/2018	001A	Chlorine, total residual	
TX0063011	1/31/2019	001A	Chlorine, total residual	13
TX0063011	2/28/2019	001A	Chlorine, total residual	-
TX0063011	3/31/2019	001A	Chlorine, total residual	
TX0063011	4/30/2019	001A	Chlorine, total residual	-
TX0063011	5/31/2019	001A	Chlorine, total residual	1.1

X0063011	0/30/2019	200		27
TX0063011	7/31/2019	001A	Chlorine, total residual	1.2
TX0063011	8/31/2019	001A	Chlorine, total residual	1.1
TX0063011	9/30/2019	001A	Chlorine, total residual	1
TX0063011	10/31/2019	001A	Chlorine, total residual	1
TX0063011	11/30/2019	001A	Chlorine, total residual	1.1
TX0063011	12/31/2019	001A	Chlorine, total residual	1.7
TX0063011	1/31/2020	001A	Chlorine, total residual	1
TX0063011	2/29/2020	001A	Chlorine, total residual	1.2
TX0063011	3/31/2020	001A	Chlorine, total residual	1
TX0063011	4/30/2020	001A	Chlorine, total residual	
TX0063011	5/31/2020	001A	Chlorine, total residual	1.2
TX0063011	6/30/2020	001A	Chlorine, total residual	1.1
TX0063011	7/31/2020	001A	Chlorine, total residual	1
TX0063011	8/31/2020	001A	Chlorine, total residual	ı
TX0063011	9/30/2020	001A	Chlorine, total residual	1
TX0063011	10/31/2020	001A	Chlorine, total residual	-
TX0063011	11/30/2020	001A	Chlorine, total residual	1
TX0063011	12/31/2020	001A	Chlorine, total residual	1
TX0063011	1/31/2021	001A	Chlorine, total residual	1
TX0063011	2/28/2021	001A	Chlorine, total residual	1.1
TX0063011	3/31/2021	001A	Chlorine, total residual	-
TX0063011	4/30/2021	001A	Chlorine, total residual	1.2
TX0063011	5/31/2021	001A	Chlorine, total residual	1.1
TX0063011	6/30/2021	001A	Chlorine, total residual	1.2
TX0063011	7/31/2021	001A	Chlorine, total residual	1
TX0063011	8/31/2021	001A	Chlorine, total residual	1.2
TX0063011	9/30/2021	001A	Chlorine, total residual	1
TX0063011	10/31/2021	001A	Chlorine, total residual	1.3
TX0063011	11/30/2021	001A	Chlorine, total residual	1.3
TX0063011	12/31/2021	001A	Chlorine, total residual	1
TX0063011	1/31/2022	001A	Chlorine, total residual	1.1
TX0063011	2/28/2022	001A	Chlorine, total residual	1.2
TX0063011	3/31/2022	001A	Chlorine, total residual	1.2
TX0063011	4/30/2022	001A	Chlorine, total residual	1.7
TX0063011	5/31/2022	001A	Chlorine, total residual	1.2

EPAID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	2HR PEAK (gal/min)
TX0063011	11/30/2018	001A	Flow, in conduit or thru treatment plant	14583
TX0063011	12/31/2018	001A	Flow, in conduit or thru treatment plant	33333
TX0063011	1/31/2019	001A	Flow, in conduit or thru treatment plant	33500
TX0063011	2/28/2019	001A	Flow, in conduit or thru treatment plant	22083
TX0063011	3/31/2019	001A	Flow, in conduit or thru treatment plant	8917
TX0063011	4/30/2019	001A	Flow, in conduit or thru treatment plant	36583
TX0063011	5/31/2019	001A	Flow, in conduit or thru treatment plant	45000
TX0063011	6/30/2019	001A	Flow, in conduit or thru treatment plant	33500
TX0063011	7/31/2019	001A	Flow, in conduit or thru treatment plant	22333
TX0063011	8/31/2019	001A	Flow, in conduit or thru treatment plant	34333
TX0063011	9/30/2019	001A	Flow, in conduit or thru treatment plant	57083
TX0063011	10/31/2019	001A	Flow, in conduit or thru treatment plant	33833
TX0063011	11/30/2019	001A	Flow, in conduit or thru treatment plant	35333
TX0063011	12/31/2019	001A	Flow, in conduit or thru treatment plant	10000

LYDDOSOLI	113112020	MIN	Flow, in conduit or thru treatment plant	79167
TX0063011	2/29/2020	001A	Flow, in conduit or thru treatment plant	15917
TX0063011	3/31/2020	001A	Flow, in conduit or thru treatment plant	11333
TX0063011	4/30/2020	001A	Flow, in conduit or thru treatment plant	22667
TX0063011	5/31/2020	001A	Flow, in conduit or thru treatment plant	20583
TX0063011	6/30/2020	001A	Flow, in conduit or thru treatment plant	28333
TX0063011	7/31/2020	001A	Flow, in conduit or thru treatment plant	28722
TX0063011	8/31/2020	001A	Flow, in conduit or thru treatment plant	18083
TX0063011	9/30/2020	001A	Flow, in conduit or thru treatment plant	48917
TX0063011	10/31/2020	001A	Flow, in conduit or thru treatment plant	17250
TX0063011	11/30/2020	001A	Flow, in conduit or thru treatment plant	30250
TX0063011	12/31/2020	001A	Flow, in conduit or thru treatment plant	34500
TX0063011	1/31/2021	001A	Flow, in conduit or thru treatment plant	38000
TX0063011	2/28/2021	001A	Flow, in conduit or thru treatment plant	11417
TX0063011	3/31/2021	001A	Flow, in conduit or thru treatment plant	18667
TX0063011	4/30/2021	001A	Flow, in conduit or thru treatment plant	32750
TX0063011	5/31/2021	001A	Flow, in conduit or thru treatment plant	41417
TX0063011	6/30/2021	001A	Flow, in conduit or thru treatment plant	39583
TX0063011	7/31/2021	001A	Flow, in conduit or thru treatment plant	36000
TX0063011	8/31/2021	001A	Flow, in conduit or thru treatment plant	22000
TX0063011	9/30/2021	001A	Flow, in conduit or thru treatment plant	28583
TX0063011	10/31/2021	001A	Flow, in conduit or thru treatment plant	48500
TX0063011	11/30/2021	001A	Flow, in conduit or thru treatment plant	25833
TX0063011	12/31/2021	001A	Flow, in conduit or thru treatment plant	24583
TX0063011	1/31/2022	001A	Flow, in conduit or thru treatment plant	26389
TX0063011	2/28/2022	001A	Flow, in conduit or thru treatment plant	14583
TX0063011	3/31/2022	001A	Flow, in conduit or thru treatment plant	25000
TX0063011	4/30/2022	001A	Flow, in conduit or thru treatment plant	25333
TX0063011	5/31/2022	001A	Flow, in conduit or thru treatment plant	23083
TX0063011	6/30/2022	001A	Flow, in conduit or thru treatment plant	14833
TX0063011	7/31/2022	001A	Flow, in conduit or thru treatment plant	7250
TX0063011	8/31/2022	001A	Flow, in conduit or thru treatment plant	15278
TX0063011	9/30/2022	001A	Flow, in conduit or thru treatment plant	20750
TX0063011	10/31/2022	001A	Flow, in conduit or thru treatment plant	18833
TX0063011	11/30/2022	001A	Flow, in conduit or thru treatment plant	28917
TX0063011	12/31/2022	001A	Flow, in conduit or thru treatment plant	22750
TV0063044	4 17 4 17000	440	Elour in conduit or thru trootmont plant	

TX0063011	2/28/2023	001A	Flow, in conduit or thru treatment plant	Г
TX0063011	3/31/2023	001A		T
TX0063011	4/30/2023	001A		T
TX0063011	5/31/2023	001A		1
TX0063011	6/30/2023	001A		Т
TX0063011	7/31/2023	001A		_
TX0063011	8/31/2023	001A		_
TX0063011	9/30/2023	001A		Т
TX0063011	10/31/2023	001A		_
TX0063011	11/30/2023	001A		Т
=				7

ANNI AVGI IMIT = 18 0 MGD	PERCENT OF ELONALIMIT	48 44%	49 44%	51 11%	50 17%	49 17%	49.17%	70:17	72:12/	76.50	75.1.2	51 17%	51.33%	51.00%	50.39%	48 33%	47 17%	46 50%	46 72%	45 94%	46.33%	46 78%
Reported Measure	188	8.72	8.9		3	8.85	8.85	8.95	8.98	8.95	8.96	9.21	9.24	9.35	9.07	8.7	8.49	8.37	8.41	8.27	8.34	8.42
	Parameter	Flow, in conduit or thru treatment plant																				
	Outfall	001A																				
	Monitoring Period Outfall	11/30/2018	12/31/2018	1/31/2019	2/28/2019	3/31/2019	4/30/2019	5/31/2019	6/30/2019	7/31/2019	8/31/2019	9/30/2019	10/31/2019	11/30/2019	12/31/2019	1/31/2020	2/29/2020	3/31/2020	4/30/2020	5/31/2020	6/30/2020	7/31/2020
EPAID		TX0063011		TX0063011																		

TX0063011 9 TX0063011 1 TX0063011 1 TX0063011 1 TX0063011 2 TX0063011 2 TX0063011 5 TX0063011 6	8/31/2020 9/30/2020 10/31/2020	001A 001A 001A	Flow, in conduit or thru treatment plant Flow, in conduit or thru treatment plant	8.53	47.39%
	/30/2020	001A 001A	Flow, in conduit or thru treatment plant	8.59	47.72%
	0/31/2020	001A		01.0	
			Flow, in conduit or thru treatment plant	8.39	47.72%
	11/30/2020	001A	Flow, in conduit or thru treatment plant	8.64	48.00%
	12/31/2020	001A	Flow, in conduit or thru treatment plant	9.085	50.47%
	1/31/2021	001A	Flow, in conduit or thru treatment plant	9.521	52.89%
	2/28/2021	001A	Flow, in conduit or thru treatment plant	9.748	54.16%
	3/31/2021	001A	Flow, in conduit or thru treatment plant	10.05	55.83%
	4/30/2021	001A	Flow, in conduit or thru treatment plant	10.125	56.25%
	5/31/2021	001A	Flow, in conduit or thru treatment plant	10.804	60.02%
	6/30/2021	001A	Flow, in conduit or thru treatment plant	11.178	62.10%
	7/31/2021	001A	Flow, in conduit or thru treatment plant	11.82	65.67%
TX0063011 8	8/31/2021	001A	Flow, in conduit or thru treatment plant	11.987	66.59%
TX0063011	9/30/2021	001A	Flow, in conduit or thru treatment plant	11.967	66.48%
TX0063011	10/31/2021	001A	Flow, in conduit or thru treatment plant	12.136	67.42%
TX0063011	11/30/2021	001A	Flow, in conduit or thru treatment plant	12.182	67.68%
TX0063011	12/31/2021	001A	Flow, in conduit or thru treatment plant	11.982	66.57%
TX0063011	1/31/2022	001A	Flow, in conduit or thru treatment plant	11.782	65.46%
TX0063011	2/28/2022	001A	Flow, in conduit or thru treatment plant	11.717	62.09%
TX0063011 3	3/31/2022	001A	Flow, in conduit or thru treatment plant	11.552	64.18%
TX0063011 4	4/30/2022	001A	Flow, in conduit or thru treatment plant	11.313	62.85%
TX0063011 5	5/31/2022	001A	Flow, in conduit or thru treatment plant	10.644	59.13%
TX0063011 6	6/30/2022	001A	Flow, in conduit or thru treatment plant	10.051	55.84%
TX0063011 7	7/31/2022	001A	Flow, in conduit or thru treatment plant	9.213	51.18%
TX0063011 8	8/31/2022	001A	Flow, in conduit or thru treatment plant	8.99	49.94%
TX0063011 9	9/30/2022	001A	Flow, in conduit or thru treatment plant	8.588	47.71%
TX0063011	10/31/2022	001A	Flow, in conduit or thru treatment plant	8.326	46.26%
TX0063011	11/30/2022	001A	Flow, in conduit or thru treatment plant	8.282	46.01%
TX0063011	12/31/2022	001A	Flow, in conduit or thru treatment plant	8.26	45.89%
TX0063011	1/31/2023	001A	Flow, in conduit or thru treatment plant	8.058	44.77%
TX0063011	2/28/2023	001A	Flow, in conduit or thru treatment plant	7.913	43.96%
TX0063011 3	3/31/2023	001A	Flow, in conduit or thru treatment plant	7.762	43.12%
TX0063011 4	4/30/2023	001A	Flow, in conduit or thru treatment plant	8.046	44.70%
TX0063011 5	5/31/2023	001A	Flow, in conduit or thru treatment plant	8.468	47.04%
TX0063011 6	6/30/2023	001A	Flow, in conduit or thru treatment plant	8.815	48.97%
TX0063011 7	7/31/2023	001A	Flow, in conduit or thru treatment plant	9.008	50.04%
TX0063011 8	8/31/2023	001A	Flow, in conduit or thru treatment plant	8.985	49.92%

150 21%	50.51%	51.28%	0/03.10	75% Limit = 13.5	90% Limit = 16.2
9:038	9.102	9.23		9.49	9.43
Flow, in conduit or thru treatment plant	Flow, in conduit or thru treatment plant	Flow, in conduit or thru treatment plant		2 YEAR AVERAGE	5 YEAR AVERAGE
001A	001A	001A			
9/30/2023	10/31/2023	11/30/2023			
TX0063011	TX0063011	TX0063011			

75/90 Rule NO NO

בואום				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	VALUE (N=0:Y=1)
TX0063011	7/31/2019	SLDF	Compliance w/part 258 sludge requirement	6=IGON
TX0063011	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	P=IUON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL TOT (DMT/v)
TX0063011	7/31/2019	SLDP	Annual amount of sludge land applied	0
TX0063011	7/31/2020	SLDP	Annual amount of sludge land applied	0

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL TOT (DMT/y)
063011	7/31/2019	SLDP	Annual amt of sludge incinerated	0
X0063011	7/31/2020	SLDP	Annual amt of sludge incinerated	C

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL TOT (DMT/y)
TX0063011	7/31/2019	SLDP	Annual amt sludge disposed in landfill	0
TX0063011	7/31/2020	SLDP	Annual amt sludge disposed in landfill	0

EPA ID				Reported Measure
	Monitoring Period Outfall Pa	Outfall	Parameter	ANNL TOT (DMT/y)
TX0063011	7/31/2019	SLDP	Annual amt. sludge disposed surface unit	0
TX0063011	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	0

EPA ID				Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	ANNL TOT (DMT/y)
TX0063011	7/31/2019	SLDP	Annual amt sludge transported interstate	0
TX0063011	7/31/2020	SLDP	Annual amt sludge transported interstate	0

TX0063011	7/31/2019	SLDP	Annual amt sludge transported interstate	0
TX0063011	7/31/2020	SLDP	Annual amt sludge transported interstate	0
				17
EPAID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL TOT (DMT/y)
TX0063011	7/31/2019	SLDP	Annual sludge production, total	2092.51
TX0063011	7/31/2020	SLDP	Annual sludge production, total	2899.75

EPAID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL MAX (mg/kg)
TX0063011	7/31/2019	SLDP	Polychlorinated biphenyls [PCBs]	NODI=9
TX0063011	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	6=IQON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	MO AV MN (pass=0;fail=1
TX0063011	7/31/2019	SLDP	Toxicity characteristic leaching procedure	NODI=9
TX0063011	7/31/2020	SLDP	Toxicity characteristic leaching procedure	6=IQON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ANNL TOT (DMT/y)
TX0063011	7/31/2019	SLDP	Ann. amt sludge disposed by other method	2092.51
TX0063011	7/31/2020	SLDP	Ann. amt sludge disposed by other method	2899.75

EPA ID				Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	MX VALUE (met t/ha/y
TX0063011	7/31/2019	SLLA	Annual whole sludge application rate	6=IQON
TX0063011	7/31/2020	SLLA	Annual whole sludge application rate	NODI=9

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (ma/ka)	MX VALUE (Ib/acr)
100000	710410040				0.0000000000000000000000000000000000000	(main) =
110000	1/3/1/2019	SLLA	Arsenic, dry weight	6=IOON	0=IOON	0-IUON
*******	200000				0 100:	61000
110000	1/31/2020	SLLA	Arsenic, dry weight	6=IQON	6=IOON	0=IUON

EPAID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (ma/ka)	MAXIMUM (ma/kg)	MX VALUE (Ih/scr)
7700004	07001701				_	וייי זי יבטב (וטומטו)
110000	731/2019	SLLA	Cadmium, dry weight	6=IOON	9=100N	NODI-0
*******	00001701				2 1001	S-IOON!
110000	131/2020	SELA	Cadmium, dry weight	6=IOON	NODI=0	0-IUON

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (ma/kg)	MX VALUE (Ih/acr)
***************************************					dendhe	(וסקונו) בסבו (וסקונו)
1 X0063011	(//31/2019	SLLA	Chromium, sludge, total, dry weight [as Cr]	6=IQON	9=IOON	NODI=9
TVOCOCAT	000001011				0 1001	2002
LYDDOSOLI	1/31/2020	SLLA	Chromium, sludge, total, dry weight [as Cr]	6=IQON	P=IOON	NODI-9
						0-100k

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (ma/ka)	MX VAI UF (Ih/acr)
******	0,000,001				10.0	'STEEL
11.0590	1/31/2019	SLIA	Copper, dry weight	6=ICON	P=IOON	ס-וטטוע
*******	0000017011				0-1001	G-100M
110500	1/31/2020	SLA	Copper, dry weight	6=IOON	NODI=9	NODI-0

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (Ib/acr)
X0063011	7/31/2019	SLLA	Lead, sludge, total, dry weight [as Ph]	NODI-0	O-IOON	0-10014
***************************************	000000000000000000000000000000000000000		far on which for the land to be	6-1001	NODI-9	NOD!
AUUDSUTT	0202/18//	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=9	NODI=9	NODI=0

EPAID			Reported Measure	Reported Measure	Reported Measure
Moni	toring Period Outfa	all Parameter	SINGSAMP (mg/kg)	MAXIMUM (ma/ka)	MX VALUE (Ib/acr)
			The state of the s	(66)	(10000) -0-111
X0063011 7/31/.	2019 SLLA	Mercury, sludge, total, dry weight [as Hg]	6=IQON	NODI=9	9=IUUN
					2000
XU063U11 (//31/.	2020 SLLA	Mercury, sludge, total, dry weight [as Hg]	6=IQON	NODI=9	P=ICON

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Perioc	1 Outfall	Parameter	SINGSAMP (ma/kg)	MAXIMUM (ma/ka)	MX VALUE (Ib/acr)
70063011	7/34/2040	< 10				(1000) =0=:
1100000	113112013	SLLA	[Molybdenum, sludge, total, dry weight [as Mo]	6=IQON	0=IQON	6=IOON

TX0063011	7/31/2020	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	6=IQON	6=IQON	6=IQON
EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	SINGSAMP (mg/kg) MAXIMUM (mg/kg) MX VALUE (lb/acr)	MX VALUE (Ib/acr)
TX0063011	7/31/2019	SLLA	Nickel, sludge, total, dry weight [as Ni]	6=IQON	6=IQON	6=IQON
TX0063011	7/31/2020	SLLA	Nickel, sludge, total, dry weight [as Ni]	6=IQON	6=IQON	6=IDON

			Reported Measure	Reported Measure	Reported Measure
ng Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
19	SLLA	Selenium, dry weight	6=IQON	6=IQON	6=IQON
20	SLLA	Selenium, dry weight	6=IQON	6=IQON	6=IQON

EPA ID				Reported Measure	Reported Measure	Reported Measure
	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (Ib/acr)
TX0063011	7/31/2019	SLLA	Zinc, sludge, total, dry weight [as Zn]	6=IQON	6=IQON	6=IQON
TX0063011	7/31/2020	SLLA	Zinc, sludge, total, dry weight [as Zn]	6=IQON	6=IGON	NODI=9

EPAID				Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	VALUE (table #)
TX0063011	7/31/2019	SLLA	Pollutant table from 503.13	6=IQON
TX0063011	7/31/2020	SLLA	Pollutant table from 503.13	6=IQON

EPAID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	VALUE (alt #)
TX0063011	7/31/2019	SLLA	Description of pathogen option used	NODI=9
TX0063011	7/31/2020	SLLA	Description of pathogen option used	6=IQON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	VALUE (alt #)
TX0063011	7/31/2019	SLLA	Vector attraction reduction alternative used	6=IQON
TX0063011	7/31/2020	SLLA	Vector attraction reduction alternative used	6=IQON

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	Monitoring Period (Ontfall	Parameter	MX VALUE (state clas
063011	7/31/2019	SLLA	Level of pathogen requirements achieved	6=IOON
063011	7/31/2020	SLLA	Level of pathoden requirements achieved	0 I CON

	Monte in a land outlant	Odilali	raidilletei	MX VALUE (state class)
TX0063011	7/31/2019	SLLA	Level of pathogen requirements achieved	6=IOON
TX0063011	7/31/2020	SLLA	Level of pathogen requirements achieved	6=IQON
EPAID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	MAXIMUM (MPN/a)
TX0063011	7/31/2019	SLLY	Fecal coliform	6=IQON
TX0063011	7/31/2020	SLLY	Fecal coliform	NODI=9
FPAID				Donotto Illiano
				reported integrale
	Monitoring Period Outfall	Outfall	Parameter	MAXIMUM (MPN/q)
TX0063011	7/31/2019	SLLY	Salmonella	6=IQON
TX0063011	7/31/2020	SLLY	Salmonella	NODI=9
				0 1001

EPA ID				Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	MAXIMUM (MPN/g)
X0063011	7/31/2019	SLLY	Salmonella	6=IUON
X0063011	7/31/2020	SLLY	Salmonella	0=IGON

Monitoring Period 7/31/2019	Reported Measure	Reported Measure
1 7/31/2019 SLSA /	ALLWCONC (mg/kg) SI	SINGSAMP (ma/ka)
40.00	thr.	O-IOON
	6-1700	B-IOON
1/3 1/2020 SLSA Arsenic, dry weight	tht and the second seco	P=IOON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	VALUE (acr)
.0063011	7/31/2019	SLSA	Boundary areas	6=IQON
0063011	7/31/2020	SLSA	Boundary areas	6=IUON

				Reported Measure Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ALLWCONC (mg/kg) SINGSAMP (mg/kg)	SINGSAMP (mg/kg)
TX0063011	7/31/2019	SLSA	Chromium, sludge, total, dry weight [as Cr]	6=IQON	6=IOON
TX0063011	7/31/2020	SLSA	Chromium, sludge, total, dry weight [as Cr]	6=IQON	NODI=9
EPAID				Reported Measure	
	Monitoring Period Outfall	Outfall	Parameter	VALUE (all #)	

			Reported Measure
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NODI=9	NODI=9	
Description of pathogen option used	Description of pathogen option used	
SLSA	SLSA	
7/31/2019	7/31/2020	
TX0063011	TX0063011	

1100000	113112020	כבכל	Describion of participant used	S-IOON	
EPA ID				Reported Measure	Reported Measure Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	ALLWCONC (mg/kg) SINGSAMP (mg/kg)	SINGSAMP (mg/kg)
TX0063011	7/31/2019	SLSA	Nickel, total [as Ni]	6=IQON	NODI=9
TX0063011	7/31/2020	SLSA	Nickel, total [as Ni]	6=IQON	NODI=9

			Reported Measure
itoring Period Outfall		Parameter	SINGSAMP (SU)
/31/2019	SLSA	Hd	6=IQON
/31/2020	SLSA	Hd	6=IQON

EPA ID				Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	VALUE (N=0;Y=1)
X0063011	7/31/2019	SLSA	Unit w/liner/leachate collection system	6=IQON
X0063011	7/31/2020	SLSA	Unit w/liner/leachate collection system	6=IQON

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	VALUE (alt #)
X0063011	7/31/2019	SLSA	Vector attraction reduction alternative used	6=IQON
X0063011	7/31/2020	SLSA	Vector attraction reduction alternative used	6=IQON

	Monitoring Period Outrall	Outrail	Parameter	(OC) IMPOONIO
TX0063011	7/31/2019	SLSA	Hd	0=IQON
TX0063011	7/31/2020	SLSA	Н	0=IOON
EPAID	Manitoring Beriod Outfall	Ouffell	Darameter	Reported Measure
TX0063011	7/31/2019	SLSA	Unit w/liner/leachate collection system	NODI=9
TX0063011	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=9
	Monitoring Period Outfall	Outfall	Parameter	VALUE (alt #)
TX0063011	7/31/2019	SLSA	Vector attraction reduction alternative used	6=IQON
TX0063011	7/31/2020	SLSA	Vector attraction reduction alternative used	6=IQON
EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	SINGSAMP (state class)
TX0063011	7/31/2019	SLSA	Level of pathogen requirements achieved	6=IQON
TX0063011	7/31/2020	SLSA	Level of pathogen requirements achieved	6=IQON

EPAID				Reported Measure Reported Measure	Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	7 DA MIN (%)	MO AV MN (%)
TX0063011	12/31/2018	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn > 100	>100	>100
TX0063011	3/31/2019	TX10	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn >100	>100	>100

TX0063011	6/30/2019	TX10	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn >100	
TX0063011	9/30/2019	TX10		
TX0063011	12/31/2019	TX10		
TX0063011	3/31/2020	TX10		
TX0063011	6/30/2020	TX10		
TX0063011	9/30/2020	TX10		
TX0063011	12/31/2020	TX10		
TX0063011	3/31/2021	TX10		
TX0063011	6/30/2021	TX1Q		
TX0063011	9/30/2021	TX10		
TX0063011	12/31/2021	TX10		
TX0063011	3/31/2022	TX10		
TX0063011	6/30/2022	TX10		
TX0063011	9/30/2022	TX10		
TX0063011	12/31/2022	TX10		
TX0063011	3/31/2023	TX10		
TX0063011	6/30/2023	TX10		
TX0063011	9/30/2023	TX1Q		

EPA ID			Repor	Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter 7 DA M	7 DA MIN (%)	MO AV MN (%)
TX0063011	9/30/2021	TX10	IC25 Lethal Static Renewal 7 Day Chronic Pimephales > 100		>100
TX0063011	12/31/2021	TX10	IC25 Lethal Static Renewal 7 Day Chronic Pimephales > 100		>100
TX0063011	3/31/2022	TX10	IC25 Lethal Static Renewal 7 Day Chronic Pimephales > 100		>100
TX0063011	6/30/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales>100	20	>100

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Flow Pas	X10 IC25 Low Flow Pass/Fail Lethal Static Benewal 7 Day	9/30/2020 TX1Q IC25 Low Flow Pas
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

				The second secon	
TX0063011	12/31/2020	TX10	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	12/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	3/31/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	6/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	
TX0063011	9/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day 0	0	

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (pass=0;fail:	7 DA MIN (pass=0;fail=MO AV MN (pass=0;fail=1)
TX0063011	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0063011	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0063011	3/31/2022	TX10	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0063011	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter 7	DA MIN (pass=0;fail-	7 DA MIN (pass=0;fail=1MO AV MN (pass=0;fail=1)
TX0063011	12/31/2018	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	3/31/2019	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	6/30/2019	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	9/30/2019	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	12/31/2019	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	3/31/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	6/30/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	9/30/2020	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	12/31/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0
TX0063011	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		0

TX0063011	6/30/2022	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		
TX0063011	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Benewal 7 0	0	
TY0062011	40/04/0000	CANA	i		
11000001	12/3/1/2022	אואו	ICZ5 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0		***
TVOCCOUNT	0000, 1000				
170093011	3/31/2023	1X1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0	2	
TVOCOCOT	0000,000			,	
170063011	6/30/2023	1X10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0	C	
				,	
1 X0063011	9/30/2023	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 0	C	
				,	

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EPAID				Reported Measure	Reported Measure
	Monitoring Period Outfall		Parameter	7 DA MIN (pass=0:fails	7 DA MIN (pass=0:fail=1) MO AV MN (pass=0-fail=1)
TX0063011	9/30/2021	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 (
TX0063011	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 (0 0
TX0063011	3/31/2022	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7		0 0
TX0063011	6/30/2022	TX10	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7		0 0
					•

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (%)	MO AV MN (%)
TX0063011	12/31/2018	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	3/31/2019	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	6/30/2019	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	9/30/2019	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	12/31/2019	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	3/31/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	6/30/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	9/30/2020	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	12/31/2020	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	3/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	6/30/2021	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	9/30/2021	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	12/31/2021	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	3/31/2022	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	6/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	9/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	12/31/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	3/31/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100
TX0063011	6/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod >100	>100	>100
TX0063011	9/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod > 100	>100	>100

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall Parameter	Outfall	Parameter	7 DA MIN (%)	MO AV MN (%)
TX0063011	9/30/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl > 100	>100	>100
TX0063011	12/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl >100	>100	>100
TX0063011	3/31/2022	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimept > 100	>100	>100
TX0063011	6/30/2022	TX10	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimept >100	>100	>100

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (pass=0;fail=	7 DA MIN (pass=0;fail=MO AV MN (pass=0;fail=1)
TX0063011	12/31/2018	TX1Q	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	3/31/2019	TX10	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	6/30/2019	TX1Q	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	9/30/2019	TX10	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	12/31/2019	TX1Q	Whole effluent toxicity - retest #1	0=IQON	NODI=9
TX0063011	3/31/2020	TX10	Whole effluent toxicity - retest #1	6=IOON	6=IQON
TX0063011	6/30/2020	TX1Q	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	9/30/2020	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	12/31/2020	TX1Q	Whole effluent toxicity - retest #1	6=IQON	0=IOON
TX0063011	3/31/2021	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	6/30/2021	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	9/30/2021	TX1Q	Whole effluent toxicity - retest #1	6=IQON	6=IQON
TX0063011	12/31/2021	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	3/31/2022	TX1Q	Whole effluent toxicity - retest #1	0=IQON	NODI=9
TX0063011	6/30/2022	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	9/30/2022	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9
TX0063011	12/31/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0063011	3/31/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0063011	6/30/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0063011	9/30/2023	TX1Q	Whole effluent toxicity - retest #1	6=IQON	NODI=9

EPA ID			No.	Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (pass=0;fail	DA MIN (pass=0;fail=MO AV MN (pass=0;fail=1)
TX0063011	12/31/2018	TX1Q	Whole effluent toxicity - retest #2	0=IQON	NODI=9
TX0063011	3/31/2019	TX1Q	Whole effluent toxicity - retest #2	6=IQON	6=IQON

LX0063011	6/30/2019	TX10	Whole effluent toxicity - retest #2	6=IGON	NODI=0
TX0063011	9/30/2019	TX10	Whole effluent toxicity - retest #2	PEIOON	S-IOON
TX0063011	12/31/2019	TX1Q	Whole effluent toxicity - refest #2	NODI=0	S-IOON
TX0063011	3/31/2020	TX10	Whole effluent toxicity - refest #2	S-IOON	S-IOON
TX0063011	6/30/2020	TX1Q	Whole effluent toxicity - refest #2	S-IOON	S-IGON
TX0063011	9/30/2020	TX10	Whole effluent toxicity - retest #2	PEION	S-IOON
TX0063011	12/31/2020	TX10	Whole effluent toxicity - retest #2	6=IOON	S-IGON
TX0063011	3/31/2021	TX10	Whole effluent toxicity - retest #2	6=IOON	8-IOON
TX0063011	6/30/2021	TX10	Whole effluent toxicity - retest #2	9=IOON	S-IGON
TX0063011	9/30/2021	TX10	Whole effluent toxicity - retest #2	9 IOON	S-ICON
TX0063011	12/31/2021	TX1Q	Whole effluent toxicity - refest #2	NODI=9	S-IOON
TX0063011	3/31/2022	TX10	Whole effluent toxicity - retest #2	NODI=9	S-IOON
TX0063011	6/30/2022	TX10	Whole effluent toxicity - retest #2	S-IGON	S-ICON NODI-0
TX0063011	9/30/2022	TX10	Whole effluent toxicity - retest #2	PEION PE	S-ICON
TX0063011	12/31/2022	TX10	Whole effluent toxicity - retest #2	6=IOON	S-IGON
TX0063011	3/31/2023	TX10	Whole effluent toxicity - retest #2	0=IOON	S-IGON
TX0063011	6/30/2023	TX10	Whole effluent toxicity - retest #2	6=IOON	S-IGON
TX0063011	9/30/2023	TX10	Whole effluent toxicity - retest #2	6=IQON	6-ICON
				0 10011	2001

EPA ID			Rep	Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter 7 DA	A MIN (%)	MO AV MN (%)
TX0063011	12/31/2019	TX1Y	IC25 Lethal Static Renewal 7 Day Chronic Pimenhales > 100		>100
TX0063011	12/31/2020	TX1Y	IC25 Lethal Static Renewal 7 Day Chronic Pimenhales>100		>100
				•	2

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (pass=0:fail	DA MIN (pass=0.fail=MO AV MN (pass=0-fail=1)
063011	12/31/2019	TX1Y	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day		
			for minimum mi		2
163011	12/31/2020	TX17	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day (0	C

TX0063011 12/31/2019 TX1Y IC25 I ow Flow Pass/Fail Sub-Lathal Static Bosovial 7 I	
TX1Y	7 DA MIN (pass=0:fail+MO AV MN (pass=0:fail=1)
	ethal Static Renewal 7 0
TX0063011 12/31/2020 TX1Y IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7 In	ethal Static Renewal 7 0

50	18				
	Monitoring Period	Outfall	Parameter	7 DA MIN (%)	MO AV MN (%)
TX0063011	12/31/2019	TX1Y	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	100	>100
TX0063011	12/31/2020	TX1Y	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimep	>100	>100

IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl >100
Parameter
Whole effluent toxicity - retest #1
Whole effluent toxicity - retest #1
Parameter
Whole effluent toxicity - retest #2
Whole effluent toxicity - retest #2

EPA ID				Reported Measure	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	7 DA MIN (pass=0;fai	DA MIN (pass=0;fail=MO AV MN (pass=0;fail=1)
TX0063011	12/31/2019	TX1Y	Whole effluent toxicity - retest #2	6=IQON	6=IQON
TX0063011	12/31/2020	TX1Y	Whole effluent toxicity - retest #2	6=IQON	6=IQON

				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	SINGSAMP (pass=0;fail=1)
TX0063011	12/31/2018	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	6/30/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	12/31/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	6/30/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	12/31/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0063011	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0

EPA ID			Reported	Reported Measure
	Monitoring Period Outfall	Outfall	Parameter SINGSAMI	SINGSAMP (pass=0;fail=1)
TX0063011	12/31/2018	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela0	
TX0063011	6/30/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	
TX0063011	12/31/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela0	
TX0063011	6/30/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela0	

TX0063011	12/31/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promelan
TX0063011	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales prometa
TX0063011	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimenhales prometa
TX0063011	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimenhales prometal
TX0063011	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimenhales prometan
TX0063011	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimenhales prometa

Monitoring Period Outfall Parameter [231/2018 TXAS Whole effluent toxicity - retest #1 3/30/2019 TXAS Whole effluent toxicity - retest #1 2/31/2019 TXAS Whole effluent toxicity - retest #1
TXAS

EPA ID				Reported Measure
	Monitoring Period Outfall	Outfall	Parameter	SINGSAMP (pass=0:fail=1)
TX0063011	12/31/2018	TXAS	Whole effluent toxicity - retest #2	6=IQON
TX0063011	6/30/2019	TXAS	Whole effluent toxicity - retest #2	6=IOON
TX0063011	12/31/2019	TXAS	Whole effluent toxicity - retest #2	6= UON
TX0063011	6/30/2020	TXAS	Whole effluent toxicity - retest #2	0 ICON
TX0063011	12/31/2020	TXAS	Whole effluent toxicity - retest #2	0= UON
TX0063011	6/30/2021	TXAS	Whole effluent toxicity - retest #2	0=100N
TX0063011	12/31/2021	TXAS	Whole effluent toxicity - retest #2	8=IGON
TX0063011	6/30/2022	TXAS	Whole effluent toxicity - retest #2	9=IOON
TX0063011	12/31/2022	TXAS	Whole effluent toxicity - retest #2	9 IOON
TX0063011	6/30/2023	TXAS	Whole effluent toxicity - retest #2	6=JUON
		TO THE PROPERTY OF THE PARTY OF	711.0000	

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

Date:

February 29, 2024

To:

Municipal Team

Thru:

Colleen Cook, Pretreatment Team Leader

From: N Bridget Malone, Pretreatment Coordinator

Subject:

Pretreatment program option for the TPDES Permit No. WQ0010495076,

City of Houston - Northwest WWTP summary sheet

I have reviewed the above referenced permit and have placed the following standard and any additional language in H:\WQ\muni\pret\10495-076.docx. This memo is placed in H:\WQ\muni\pret\memos\10495-076memo.docx.

Option 3 - General Pretreatment language for POTWs with regulated industrial users on the collection system and with an approved Program.

Within this standard language, the Pretreatment Program has incorporated additional pretreatment language requirements. Please incorporate the following language for permittee's FACT SHEET, if applicable, under:

INDUSTRIAL WASTE CONTRIBUTION 1.

The Northwest WWTP receives significant industrial wastewater contributions.

PRETREATMENT REQUIREMENTS 2.

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305 which references 40 CFR Part 403, General Pretreatment Regulations for Existing and New Sources of Pollution [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on November 27, 1984, and modified on February 26, 1993, and March 11, 2020 (nonsubstantial Streamlining Rule modification) and on June 14, 2021 (TBLLs). The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of **November** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s)

served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within sixty (60) days of the issued date of this permit, either: (1) a WRITTEN CERTIFICATION that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs Reassessment Form No. TCEQ-20221], OR (2) a WRITTEN NOTIFICATION that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 [rev. 10/14/05] and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within twelve (12) months of the issued date of the permit

Substantial modifications will be approved in accordance with 40 CFR §403.18, and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

SUMMARY OF CHANGES FROM EXISTING PERMIT

The pretreatment language has been updated from the current permit. The pretreatment requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved City of Houston publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on November 27, 1984, and modified on February 26, 1993, and March 11, 2020 (nonsubstantial Streamlining Rule modification), and modified on June 14, 2021 (TBLLs).

The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.
- c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

- (1) Statement of duration (in no case more than five years);
- (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator:
- (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
- (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;
- (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
- (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
- e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected

to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).

- f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).
- g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.
- h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
- 2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either:

- 1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; or
- 2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 [rev. 10/14/05], and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's Local Limits Development Guidance, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee [according to 40 CFR §122.41(k)].

Upon approval by the Executive Director of a substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §§403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per six months** and the toxic pollutants listed in 40

CFR Part 122, Appendix D, Table III at least **once per three months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per three months** on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **November** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

In addition, each **November** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [rev. 10/22/15] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:
 - (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.
 - (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
 - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [rev. 10/22/15] and (3);
 - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
 - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
 - (3) Control mechanism status.
 - Indicate whether the IU has an effective individual or general control mechanism,

and the date such control mechanism was last issued, reissued, or modified;

- Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
- Include the type of general control mechanisms; and
- Report all NSCIU annual evaluations performed, as applicable.
- (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
 - Total number of inspections performed; and
 - Total number of sampling events conducted.
- (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:
 - Compliant (C) no violations during the pretreatment year reporting period;
 - Non-compliant (NC) one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
 - Significant Noncompliance (SNC) in accordance with requirements described above in this section.
- (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
- c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.
- d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.
- e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.
- f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.
- g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (See Endnotes No. 2 at the

end of this section for the influent loading as a percent of the MAHL equation.)

- h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.
- i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

- 5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month	/year:	,to	
ΓPDES Permit No.:	Permittee:	Treatment Plant:	

P	RETREA	TME	NT P	ROGE	RAM S	TATUS	REP	ORT	UPI)AT	ED 1	NDUS	TRIAL	USER	S¹ LIS	ST
a		CONTROL MECHANISM				the CA	the CA		(C =	During Re Compl	IPLIAN the Pre eporting iant, N nificant	treatme g Period C = Non	nt Yea 4 compl	iant,		
User Name	S Code		NR5 GEN or NR tion6 or				(Y or N)	þ	by		R	EPORT		S	iits	
Industrial Us	SIC or NAICS	CIU2	Y/N or NR5	IND or GEN	Last Action ⁶	TBLLs or TBLLs only ⁷	New User 3	Times Inspected	Times Sampled	BMR	90-Day	Semi- Annual	Self- Monitoring ⁸	NSCIU Certifications	Effluent Limits	Narrative Standards

Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last

issued IU permit.

TCEQ-20218a

The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant

IUs need to be reported separately, e.g. the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or

SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TPDES Pretreatment Program Annual Report Form

Revised July 2007

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month	/year:	_, to	->	19
TPDES Permit No:	Permittee:	Treatment Plant:	€.	

	INDLICTO	AT TICED IN	VENTORY MOD	IEICATIONS	
FACILITY NAME,	ADD, CHANGE,	IF DELETION:		ON OR SIGNIFICA	NT CHANGE:
ADDRESS AND CONTACT PERSON	(Including categorical reclassification to NSCIU or MTCIU)	Reason For Deletion	PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE 9 (In gpd) R = Regulated U = Unregulated T = Total
					*

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

 $TCEQ\hbox{-20218b }TPDES\ Pretreatment\ Program\ Annual\ Report\ Form$

Revised July 2007

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken Reporting month/year: ______, ____ to _____, ____ TPDES Permit No: _____ Permittee: ____ Treatment Plant: _____ % SNC 10 based on: Effluent Violations____ Reporting Violations % Narrative Standard Violations % Noncompliant Industrial Users - Enforcement Actions Taken Number of Actions Compliance Current Status Returned to Compliance: (Y or N) Nature of Violation 11 Penalties Collected (Do not Include Surcharge) Schedule Taken Industrial Effluent Limits NSCIU Certifications User Comments Name Date Issued Narrative Standards Date Due Criminal Reports or N NOV Civil A.O. 10 Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards) ____ Reporting Requirements [WENDB-PSNC] Narrative Standards Please specify a separate number for each type of violation, e.g. report, notification, and/or 11 NSCIU certification.

TPDES Pretreatment Program Annual Report Form Revised July 2007 TCEO-20218c

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results¹

Reporting mo	onth/year:	, to	.,
TPDES Permit No.:	Permittee:	Treatment Plant	t:

PRETREATMEN	Γ PROGRAM INF	LUEN	IT AN	D EF	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure ual Co			Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure ual Co	uent d in µg ncentr MAL) 4	ation
		Date	Date Date Date					Date	Date	Date	Date
METALS, CYANIDE AND PH	ENOLS								ti		
Antimony, Total											
Arsenic, Total											
Beryllium, Total											
Cadmium, Total								10	il.		
Chromium, Total											
Chromium (Hex)											
Chromium (Tri) ⁵											
Copper, Total									lt.		
Lead, Total											
Mercury, Total											
Nickel, Total											
Selenium, Total											
Silver, Total											
Thallium, Total											
Zinc, Total											
Cyanide, Available ⁶			Î								
Cyanide, Total											
Phenols, Total											

PRETREATMENT PR	OGRAM INF	LUEN	T AN	D EFI	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure ual Co	uent d in µg ncentra MAL)		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	(Actual Concer			ation
		Date	Date	Date	Date			Date	Date	Date	Date
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile						1		46	128		
Benzene								,			
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene								993	14		
Chlorodibromomethane							See TTHM	8 =			
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM		·		
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											

PRETREATMENT PR	OGRAM INF	LUEN	T AN	D EFI	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure	uent d in µg ncentra MAL)		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure ual Coi	uent d in µg ncentra IAL) 4	
		Date	Date	Date	Date	1		Date	Date	Date	Date
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene								0.00			
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene									*		
Vinyl Chloride								, .			
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol								8			
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS	J										
Acenaphthene											
Acenaphthylene											

PRETREATMENT PR	OGRAM INF	LUEN	T AN	D EFI	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure 1al Coi			Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure ual Coi	uent d in µg ncentra IAL) 4	
		Date	Date	Date	Date			Date	Date	Date	Date
Anthracene									,		
Benzidine								9			
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene								7.6			
Benzo(ghi)Perylene								er +c			
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											
Butylbenzyl Phthalate									8		
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine									<u></u>		
Diethyl Phthalate											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS Influent Daily Effluent													
POLLUTANT	MAHL, if Applicable in lb/day		easure	d in μg ncentra		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		Effluent Measured in µg/L (Actual Concentratio or < MAL) 4				
		Date	Date	Date	Date			Date	Date	Date	Date		
Dimethyl Phthalate								*					
Di-n-Butyl Phthalate													
2,4-Dinitrotoluene							= 0# 10						
2,6-Dinitrotoluene													
Di-n-Octyl Phthalate								E)					
1,2-Diphenyl Hydrazine									6				
Fluoranthene													
Fluorene													
Hexachlorobenzene													
Hexachlorobutadiene													
Hexachloro- cyclopentadiene													
Hexachloroethane													
Indeno(1,2,3-cd)pyrene													
Isophorone													
Naphthalene							- M - M =						
Nitrobenzene													
N-Nitrosodimethylamine													
N-Nitrosodi-n-Propylamine													
N-Nitrosodiphenylamine													
Phenanthrene								14					
Pyrene													
1,2,4-Trichlorobenzene													

PRETREATMENT PR	OGRAM INF	LUEN	T AN	D EFI	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure ual Co	uent d in µg ncentr MAL)		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure ual Coi		ation
		Date	Date	Date	Date			Date	Date	Date	Date
PESTICIDES											
Aldrin											
Alpha-hexachlorocyclohexane (BHC)											
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											
4,4-DDT						9					
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											-
Polychlorinated biphenols (PCBs) The sum of PCB concentrations not to exceed daily average value.											
PCB-1242			Î				See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				

PRETREATMENT P	ROGRAM INF	LUEN	NT AN	ID EF	FLUE	NT MONI	TORING	RESU	LTS			
POLLUTANT	MAHL, if Applicable in lb/day	M (Act	easure ual Co	luent ed in µ ncentr MAL)		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure		in μg/L entration	
		Date	Date	Date	Date			Date	Date	Date	Date	
PCB-1232							See PCBs					
PCB-1248							See PCBs	æ				
PCB-1260							See PCBs					
PCB-1016							See PCBs					
Toxaphene												
ADDITIONAL TOXIC POLLUTA	NTS REGULA	TED U	JNDE	R 30 '	ГАС С	CHAPTER	307					
Aluminum												
Barium												
Bis(chloromethyl)ether ⁷												
Carbaryl								765				
Chloropyrifos												
Cresols												
2,4-D												
Danitol 8												
Demeton												
Diazinon												
Dicofol												
Dioxin/Furans 9												
Diuron												
Epichlorohydrin 9												
Ethylene glycol ⁹												
Fluoride												

PRETREATMENT P	ROGRAM INF	LUEN	T AN	D EF	FLUE	NT MONI	TORING	RESU	LTS		
POLLUTANT	MAHL, if Applicable in lb/day		easure ual Cor	uent d in µg ncentr MAL)		Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³		easure ual Co	uent d in µg ncentr MAL) 4	ation
		Date	Date	Date	Date	V.		Date	Date	Date	Date
Guthion											
Hexachlorophene								8 8			
4,4-Isopropylidenediphenol (bisphenol A) ⁹											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) 9											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine								. *			
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion									N.		
Pentachlorobenzene								- ~			
Pyridine									×		
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene								4	a.		
2,4,5-TP (Silvex)											
Tributyltin 9											
2,4,5-Trichlorophenol											
TTHM (Total Trihalomethanes)									E .		

Endnotes:

- 1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).
- 2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency Local Limits Development Guidance, July 2004, EPA933-R-04-002A).

The % of the MAHL is to be calculated using the following formulas:

Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

Equation B: $L_\% = (L_{INF} / MAHL) \times 100$

Where:

L_{INF} = Current Average (Avg) influent loading in lb/day

 $C_{POLL} = Avg$ concentration in $\mu g/L$ of all influent samples collected during the

pretreatment year.

Q_{WWTP} = Annual average flow of the WWTP in MGD, defined as the arithmetic average of

all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions

and Standard Permit Conditions section.

 $L_{\%} = \%$ of the MAHL

MAHL = Calculated MAHL in lb/day

8.34 = Unit conversion factor

- 3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.
- 4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.
- 5. Report result by subtracting Hexavalent Chromium from Total Chromium.
- 6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.
- 7. Hydrolyzes in water. Will not require permittee to analyze at this time.
- 8. EPA procedure not approved. Will not require permittee to analyze at this time.
- 9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

TCEO-20218d TPDES Pretreatment Program Annual Report Form

Revised February 2020

To: Municipal Permits Team

Wastewater Permitting Section

From: Michael B. Pfeil, Standards Implementation Team

MRP Water Quality Assessment Section

Water Quality Division

Date: February 14, 2024

Subject: City of Houston

Northwest WWTP

Permit No. WQ0010495076

WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)

The following information applies to Outfall 001. We recommend freshwater chronic and 24-hour acute testing. For chronic testing, we recommend the water flea (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promelas*) as test species and a testing frequency of once per quarter for both test species. We recommend a dilution series of 27%, 37%, 49%, 65%, and 100% with a critical dilution of 65%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend a water flea (*Ceriodaphnia dubia* or *Daphnia pulex*) and the fathead minnow as test species and a testing frequency of once per six months for both test species. In the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

REASONABLE POTENTIAL (RP) DETERMINATION

In the past three years, the permittee performed eighteen chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

Houston, WQ0010495076, Three-year WET testing history

Chronic

Outfall	Sp	Due date	Test date	Lethal Results	NOECsurv	Sub-Lethal Results	NOEC Subleth
001	cd	7/20/2021	5/4/2021	Pass	>100	Pass	>100
001	cd	10/20/2021	8/24/2021	Pass	>100	Pass	>100
001	pp	10/20/2021	8/24/2021	Pass	>100	Pass	>100
001	cd	1/20/2022	10/19/2021	Pass	>100	Pass	>100
001	рр	1/20/2022	10/19/2021	Pass	>100	Pass	>100
001	cd	4/20/2022	1/5/2022	Pass	>100	Pass	>100
001	рр	4/20/2022	1/5/2022	Pass	>100	Pass	>100
001	cd	7/20/2022	5/10/2022	Pass	>100	Pass	>100
001	cd	10/20/2022	8/23/2022	Pass	>100	Pass	>100
001	cd	1/20/2023	10/11/2022	Pass	>100	Pass	>100
001	рр	1/20/2023	5/10/2022	Pass	>100	Pass	>100
001	cd	4/20/2023	1/31/2023	Pass	>100	Pass	>100
001	cd	7/20/2023	4/18/2023	Pass	>100	Pass	>100
001	cd	10/20/2023	7/18/2023	Pass	>100	Pass	>100
001	cd	1/20/2024	10/10/2023	Pass	>100	Pass	>100
001	pp	1/20/2024	1/31/2023	Pass	>100	Pass	>100
001	cd	4/20/2024	1/19/2024	Pass	>100	Pass	>100
001	pp	1/20/2025	1/19/2024	Pass	>100	Pass	>100

24-hour Acute

Outfall	Sp	Due date	Test date	Results	LC50
001	dp	1/20/2022	8/24/2021	Pass	>100
001	pp	1/20/2022	8/24/2021	Pass	>100
001	dp	7/20/2022	1/5/2022	Pass	>100
001	pp	7/20/2022	1/5/2022	Pass	>100
001	dp	1/20/2023	8/23/2022	Pass	>100
001	pp	1/20/2023	8/23/2022	Pass	>100
001	dp	7/20/2023	1/31/2023	Pass	>100
001	рр	7/20/2023	1/31/2023	Pass	>100
001	dp	1/20/2024	7/18/2023	Pass	>100
001	рр	1/20/2024	7/18/2023	Pass	>100
001	dp	7/20/2024	1/19/2024	Pass	>100
001	рр	7/20/2024	1/19/2024	Pass	>100

To:

Municipal Permits Team

Wastewater Permitting Section

From:/

Josi Robertson

Water Quality Assessment Team Water Quality Assessment Section

Date:

February 14, 2024

Subject:

City of Houston

Permit Renewal (WQ0010495076, TX0063011)

Discharge to a tributary of Whiteoak Bayou Above Tidal (Segment No. 1017)

The referenced applicant is proposing to renew its permit authorizing the discharge of 18 MGD of treated domestic wastewater into the watershed of Whiteoak Bayou Above Tidal (Segment No. 1017). A dissolved oxygen analysis of the referenced discharge was conducted using an updated version of the calibrated QUAL-TX model documented in *Waste Load Evaluation WLE-1R for the Houston Ship Channel System (September 2006)*. The facility is located in Harris County.

Based on model results, the existing effluent limits of 10 mg/L CBOD₅, 3 mg/L Ammonianitrogen, and 4.0 mg/L dissolved oxygen (DO) are predicted to be adequate to maintain dissolved oxygen levels above the criteria stipulated by the Standards Implementation Team for the Cole Creek (3.0 mg/L) and Segment No. 1017 (3.0 mg/L).

Coefficients and kinetics used in the model are a combination of site-specific, standardized default, and estimated values. The results of this evaluation can be re-examined upon receipt of information that conflicts with the assumptions employed in this analysis.

Segment No. 1017 is not currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list).

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

TMDL Project No. 22: Eighteen Total Maximum Daily Loads for Bacteria in Buffalo and Whiteoak Bayous and Tributaries Segments 1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, and 1017E has been approved for this segment.

The effluent limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended limits are consistent with the approved WQMP.

To:

Municipal Permits Team

Wastewater Permitting Section

From:

Brian Christman, Water Quality Assessment Team

Water Quality Assessment Section

Date:

February 13, 2024

Subject:

City of Houston

Wastewater Permit No. WQ0010495076 Critical Conditions Recommendation Memo

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

The TexTox menu number is 3 for a perennial freshwater ditch, stream, or river.

This discharge is to Whiteoak Bayou Above Tidal (Segment No. 1017).

Segment No.	1017
Effluent Flow for Aquatic Life (MGD)	18 (Permitted)
Critical Low Flow [7Q2] (cfs)	14.98
Effluent Flow for Human Health (MGD)	18 (Permitted)
Harmonic Mean Flow (cfs)	28.45

Human Health criteria apply for Fish Only.

The chronic aquatic life mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

<u>Additional comments</u>: The Standards Implementation Team considers the discharge to be direct to Whiteoak Bayou Above Tidal (Segment No. 1017) and Cole Creek is not assessed.

OUTFALL LOCATION 1

Outfall Number	Latitude	Longitude	
001	29.844860 N	95.460813 W	

 $^{^{1}}$ Latitude and Longitude values are approximations of the location for administrative purposes.

To:

Municipal Permits Team

Wastewater Permitting Section

From:

Michelle Labrie, Standards Implementation Team

Water Quality Assessment Section

Water Quality Division

Date:

February 8, 2024

Subject:

City of Houston; Permit no. WQ0010495076

Renewal; Application received 12/1/2023

The discharge route for the above referenced permit is to Cole Creek, thence to Whiteoak Bayou in Segment 1017 of the San Jacinto River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1017 are primary contact recreation, limited aquatic life use, and 3.0 mg/L dissolved oxygen.

The Standards Implementation Team recommends the following requirement be added to the permit:

The permittee shall conduct an instream monitoring study for chloride and sulfate. Within 180 days of permit issuance, the permittee shall submit an instream monitoring plan for Cole Creek to the TCEQ Compliance Monitoring Team (MC-224), and cc the Standards Implementation Team (MC 150) for TCEQ review and approval prior to any sampling. The TCEQ may disapprove or modify the work plan within 60 days of receipt. The instream monitoring shall be conducted to collect representative values of ambient chloride and sulfate. Monitoring shall occur at 1) a minimum of one sampling station on Cole Creek located at least 500 feet upstream of the discharge point (i.e., outside of the mixing zone) in an area unimpacted by other wastewater discharges; and 2) a minimum of one sampling station where Cole Creek confluences with Whiteoak Bayou (Segment 1017). Monitoring shall be done at a minimum frequency of once per month, include at least 30 samples from each location, and continue for no less than one year. Samples should be taken at similar frequency each month to ensure data is obtained equally throughout the year. The data should reflect baseline conditions as best as possible. Data collection and analytical methods shall conform to guidelines set forth in the Surface Water Quality Monitoring Procedures, Volume 1 (RG-415, revised August 2012). Prior to the expiration of the issued permit, a final report shall be submitted to the TCEQ Compliance Monitoring Team (MC-224) and cc'ed to the Standards Implementation Team (MC 150)

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

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 7, 2024

Ms. Heather Maloney Environmental Investigator V City of Houston, Houston Public Works 10500 Bellaire Boulevard Houston, Texas 77072

RE: Declaration of Administrative Completeness

Applicant Name: City of Houston (CN600128995) Permit No.: WQ0010495076 (EPA I.D. No. TX0063011)

Site Name: Northwest WWTP (RN101610665)

Type of Application: Renewal

Dear Ms. Maloney:

The executive director has declared the above referenced application, received on December 1, 2023, administratively complete on February 7, 2024.

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

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

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

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

- 1. Publish the enclosed notice within 30 calendar days after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.
- 2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.

- 3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within 30 calendar days after notice is published in the newspaper.
- 4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

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

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Francesca Findlay at (512) 239-2441.

Sincerely,

Jennifer E. Bowers

Dowers

Section Manager, Water Quality Division Support

Office of Water

Texas Commission on Environmental Quality

JEB/fmf

Enclosures

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

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

1. REVIEW THE NOTICE FOR ACCURACY

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

2. PUBLISH THE NOTICE IN THE NEWSPAPER

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

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

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

3. PUBLISH THE NOTICE IN AN ALTERNATIVE LANGUAGE

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

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

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

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

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

If you are required to publish notice in Spanish, you must translate the site-specific information in the notice that is specific to your application, at your own expense. You may then insert the Spanish translation of your site-specific information into a Spanish template developed by the TCEQ. The Spanish templates are available on the TCEQ website at

http://www.tceq.texas.gov/permitting/wastewater/review/wqspanish_nori.html. If you are required to publish notice in a language other than Spanish, you must translate the entire public notice, at your own expense.

4. PUT THE APPLICATION IN A PUBLIC PLACE

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

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

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

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

5. PROVIDE PROOF OF PUBLICATION

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

- a completed Publisher's Affidavit (enclosed); and
- a copy of the published notice which shows the notice, the date published, and the newspaper name. The copy must be on standard-size $8\frac{1}{2}$ x 11" paper and must show the <u>actual size</u> of the published notice. Do not reduce the

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

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

6. PROVIDE PROOF OF APPLICATION VIEWING LOCATION

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

7. SUBMIT PROOFS TO TCEQ

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

By email to: PROOFS@tceq.texas.gov

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

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

Additional Information

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

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

If you wish to obtain an electronic copy of the notice, please visit our web site at http://www.tceq.texas.gov/agency/cc/cc_db.html or

http://www.tceq.texas.gov/agency/cc/eda.html. Please be aware that formatting codes may be lost and that any notices downloaded from these web sites must be reformatted by you so that your downloaded copy looks like the notice document you received from us.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010495076

APPLICATION. City of Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010495076 (EPA I.D. No. TX0063011) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 18,000,000 gallons per day. The domestic wastewater treatment facility is located at 5423 Mangum Road, Houston in Harris County, Texas 77091. The discharge route is from the plant site to Cole Creek; thence to Whiteoak Bayou Above Tidal. TCEQ received this application on December 1, 2023. The permit application will be available for viewing and copying at the City of Houston Public Works Building, 10500 Bellaire Boulevard, Houston, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&level=18

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

notices.

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

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at https://www14.tceq.texas.gov/epic/eComment/, or in writing

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

Further information may also be obtained from City of Houston at the address stated above or by calling Ms. Heather Maloney, at 832-395-5756.

Issuance Date: February 7, 2024



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

Water Quality Permit

All applicants must complete this p	page.
Applicant Name:	
Site or Facility Name:	
Water Quality Permit Number:	
Regulated Entity Number: RN	Customer Number: CN
PUI	BLIC VIEWING LOCATION
following public place for public viewing at the public place from the 1st day of pul	er quality application, and all revisions, were placed at the gand copying. I understand that the copy will remain available blication of the NORI until the end of the designated comment by will be updated with any revisions to the application.
Name of Public Place:	
Address of Public Place:	
Applicant or Applicant Representative	Signature:
Title:	Date:



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

Water Quality Permit

Complete the not able to c		oublish in an alternative language and are
Applicant Nar	me:	
Site or Facility	y Name:	
Water Quality	Permit Number:	
Regulated Ent	tity Number: RN	Customer Number: CN
*****	ALTERNATIVE LANGU	AGE EXEMPTION
both the muni		ewspaper or publication of general circulation in s located or proposed to be located and was language because:
	A newspaper or publication could not be which notice is required.	found in any of the alternative languages in
	and another newspaper or publication in	elow refused to publish the notice as requested, in the same language and of general circulation or county in which the facility is located or
	Newspaper Name:	
	Language:	
Applicant or	Applicant Representative Signature:	
Title:	Date:	

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

Applicant Name: <u>City of Houston</u> Permit No.: <u>WQ0010495076</u>

PUBLISHER'S AFFIDAVIT FOR WATER QUALITY PERMITS

COUNTY OF	§ §
Before me, the und	lersigned authority, on this day personally appeared
(name of person i	who being by me duly sworn, deposes representing newspaper)
and says that (s)he is the_	
	(title of person representing newspaper)
of the(name of n	; that this newspaper is a newspaper of ewspaper)
largest circulation in	(name of county) County, Texas or is
a newspaper of general cir	culation in, (name of municipality)
Texas; and that the enclose date(s):	ed notice was published in said newspaper on the following
	(newspaper representative's signature)
Subscribed and sworn to b	efore me this the,
20	
(Seal)	Notary Public in and for the State of Texas
	Print or Type Name of Notary Public
	My Commission Expires

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

Applicant Name: <u>City of Houston</u> Permit No.: <u>WQ0010495076</u>

ALTERNATIVE LANGUAGE **PUBLISHER'S AFFIDAVIT**

STATE OF TEXAS	§	
COUNTY OF	_ §	
Before me, the undersig	ned notary public, on this day personally appeared	
14-1	, who being by me duly sworn, de	eposes
(name of person repres	, who being by me duly sworn, denting newspaper)	•
	(title of person representing newspaper)	
4	; that said newspaper is	
(name of news ₁	; that said newspaper is aper)	
generally circulated in	County, Texas an	d
(sa	County, Texas and ne county as proposed facility)	
is published primarily in	language; that the	е
or the state of the control of the	language; that the (alternative language)	
enclosed notice was published i	n said newspaper on the following date(s):	
•		
Subscribed and sworn to before	me this the, day of,	
20, by	resentative's signature)	
(песеорирет гер	edomanico o or g inaria o,	
(Seal)	Notary Public in and for the State of Texa	as
	Print or Type Name of Notary Public	
	My Commission Expires	

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0010495076

SOLICITUD. La Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010495076 (EPA I.D. No. TX0063011) 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 anual de 18,000,000 galones por día. La planta de tratamiento de aguas residuales domésticas está ubicada en 5423 Mangum Road, Houston, en el Condado de Harris, Texas 77091. La ruta de descarga es del sitio de la planta al riachuelo Cole Creek; de allí al pantano Whiteoak Bayou por encima de la marea. La TCEQ recibió esta solicitud en Diciembre 1, 2023. La solicitud para el permiso está disponible para leerla y copiarla en la Ciudad de Houston, Trabajos Públicos de Houston, Operaciones de Wastewater edificio, 10500 Bellaire Boulevard, Houston, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&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 específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener información adicional del La Ciudad de Houston a la dirección indicada arriba o llamando a Sra. Heather Maloney al (832) 395-5756.

Fecha de emission: 7 de febrero de 2024

CHECKLIST FOR A	DMIN REVIEW OF MUNICIPAL INDI	VIDUAL PERMIT APPLICATION
Permit No. WQ0010495076	EPA ID TX0063011	MGD 18 million gallons
CNCN600128995	RNRN101610665	County Harris Region No. 12
EPA Class. ⊠ Major □ Minor	App Received Date 12/1/2023	Expiration Date 6-14-24
Status ☐ Inactive ☒ Active	Segment No. 1017	Permit Type ⊠ TPDES ☐ TLAP
Auth Type Public Domestic Wastewater	Application Type Renewal	
Application Review Date: <u>/</u>		
and all applications with (or pro	pposing) Class B sludge provisions).	jor amendment, SADD minor amendment,
For new and major amendm review for RWA comments is in	ent applications that propose surfa cluded.	ce water discharge (TPDES), the standard
Coastal Zone sheet is included.		
Fees or Penalties Owed: \ No Verified in Basis2 Report: Outstand	Yes Amount Owed:ding Past Due Transactions Detail Repo	rt by Customer Name.
ADMINISTRATIVE REPORT :	L.O - FOR ALL APPLICATIONS	
SECTION 1. APPLICATION FEES		
Application Fees: Correct amo	ount is checked and check or voucher r	number is provided and verified in

Basis2 Report: Water Quality Receipt Report.

Note: copies of checks should be removed and shredded.

Municipal Application Fee Table

Proposed/Final Phase Flow	New/Major Amend.	Renewals	Minor Amendment or Modification
< .05 MGD	\$350.00	\$315.00	without Renewal state \$150.00
≥ .05 but < .10 MGD	\$550.00	□ \$515.00	(any flow)
≥ .10 but < .25 MGD	\$850.00	\$815.00	
≥ .25 but < .50 MGD	☐ \$1,250.00	□ \$1,215.00	
≥ .50 but < 1.0 MGD	□ \$1,650.00	□ \$1,615.00	
≥ 1.0 MGD	□ \$2,050.00	\$2,015.00	

SECTION 2. TYPE OF APPLICATION

The correct application type is marked

Reason for amendment or modification is listed (if applicable).

Check Tech Report 1.0 Section 4 - Unbuilt Phases and Tech Report 1.1 Section 1.A - Justification for Permit.

EPA Class. Major Minor App Received Date Expira	Region No ion Date Type TPDES TLAP
EPA Class. ☐ Major ☐ Minor	Type TPDES TLAP Tent, SADD minor amendme
Status ☐ Inactive ☐ Active	Type TPDES TLAP
Auth Type Application Type Note: A minor facility is generally one in which the final flow is less than 1.0 MGD. Application Review Date: A copy of the groundwater review was provided (for TLAP new, major amend and all applications with (or proposing) Class B sludge provisions). For new and major amendment applications that propose surface water review for RWA comments is included. Coastal Zone sheet is included. Fees or Penalties Owed: No Yes Amount Owed: Verified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Cust ADMINISTRATIVE REPORT 1.0 - FOR ALL APPLICATIONS SECTION 1. APPLICATION FEES Application Fees: Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD	nent, SADD minor amendme
Note: A minor facility is generally one in which the final flow is less than 1.0 MGD. Application Review Date: A copy of the groundwater review was provided (for TLAP new, major amend and all applications with (or proposing) Class B sludge provisions). For new and major amendment applications that propose surface water review for RWA comments is included. Coastal Zone sheet is included. Fees or Penalties Owed: No Yes Amount Owed: / rerified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Cust ADMINISTRATIVE REPORT 1.0 - FOR ALL APPLICATIONS SECTION 1. APPLICATION FEES Application Fees: Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD	
Application Review Date:	
A copy of the groundwater review was provided (for TLAP new, major amend and all applications with (or proposing) Class B sludge provisions). For new and major amendment applications that propose surface water review for RWA comments is included. Coastal Zone sheet is included. Gees or Penalties Owed: ☐ No ☐ Yes Amount Owed: ☐ Perified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Cust ADMINISTRATIVE REPORT 1.0 ─ FOR ALL APPLICATIONS SECTION 1. APPLICATION FEES Application Fees: Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow	
and all applications with (or proposing) Class B sludge provisions). For new and major amendment applications that propose surface water review for RWA comments is included. Coastal Zone sheet is included. Sees or Penalties Owed: Proposed/Final Phase Flow New/Major Amend. New/Major Amend. Renewals Statistical Passon Statistics Stat	
review for RWA comments is included. Coastal Zone sheet is included. Cees or Penalties Owed: No Yes Amount Owed: Perified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Cust ADMINISTRATIVE REPORT 1.0 – FOR ALL APPLICATIONS ECTION 1. APPLICATION FEES Application Fees: Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD \$350.00 \$\$15.00 > .05 but < .10 MGD \$\$550.00 \$\$15.00 > .10 but < .25 MGD \$\$850.00 \$\$815.00	discharge (TPDES) , the sta
ees or Penalties Owed:	
Proposed Final Phase Flow New Major Amend. Renewals	
ECTION 1. APPLICATION FEES Application Fees: Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD □ \$350.00 □ \$315.00 ≥ .05 but < .10 MGD □ \$550.00 □ \$515.00 ≥ .10 but < .25 MGD □ \$850.00 □ \$815.00	mer Name.
Correct amount is checked and check or voucher number is Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD \$350.00 \$315.00 \$550.00 \$515.00 \$850.00 \$850.00 \$815.00	
Basis2 Report: Water Quality Receipt Report. Note: copies of checks should be removed and shredded. Municipal Application Fee Table Proposed/Final Phase Flow New/Major Amend. Renewals .05 MGD \$350.00 \$315.00 .05 but < .10 MGD \$550.00 \$515.00 \$815.00 Application Fee Table New/Major Amend. \$315.00 \$315.00	
Proposed/Final Phase Flow New/Major Amend. Renewals < .05 MGD □ \$350.00 □ \$315.00 ≥ .05 but < .10 MGD □ \$550.00 □ \$515.00 ≥ .10 but < .25 MGD □ \$850.00 □ \$815.00	provided and verified in
< .05 MGD	
≥ .05 but < .10 MGD	Minor Amendment or Modification
≥ .10 but < .25 MGD	<u>without</u> Renewal ☐ \$150.00
	(any flow)
≥ .25 but < .50 MGD	
≥ .50 but < 1.0 MGD	
≥ 1.0 MGD	
ECTION 2 TYPE OF APPLICATION	
The correct application type is marked	
The correct application type is marked Reason for amendment or modification is listed (if applicable).	
Check Tech Report 1.0 Section 4 – Unbuilt Phases and Tech Report 1.1 Section 3	
otes:	A – Justification for Permit.

SECTION 3. FACILITY OWNER (APPLICANT) AND CO-APPLICANT INFORMATION
 Legal name of applicant is listed (the owner of the facility must apply for the permit). CN is listed for existing customer. Name and title of the person signing the application is listed and matches signature page. Legal name of co-applicant is listed (if required to apply with facility owner). Core Data Form (CDF) is provided. A separate CDF is required for each customer.
CORE DATA FORM TCEQ Core Data Standards
Section I - General Information Reason for submittal is marked. Customer (CN) and Regulated Entity (RN) Reference Nos. provided - verify with Central Registry.
Section II – Customer Information Customer legal name is provided and it matches name on admin report. Texas SOS/Filing number is provided for a private business entity – verify with SOS Texas State Tax ID is provided for a private business entity – verify with Comptroller Type of customer is marked – refer to information below
Corporation: Check with <u>Secretary of State (SOS)</u> . Verify the entity status and charter number – print page. Verify correct legal spelling of applicant's name. Check spelling with SOS against the name listed in the application. (Permit must be issued in name as filed with SOS.) The applicant must be " <u>In existence and active</u> " before the application can be processed further.
☐ Those entities subject to state franchise taxes: If applicable, check with <u>Comptroller of Public Accounts</u> (<u>CPA</u>) Verify the tax identification number is correct. Note: Non-profit organizations and partnerships are not subject to the state franchise tax.
☐ Individual: Complete Attachment 1 of Admin. Report 1.0 The complete legal name, including the middle name; and all other information is required. This info is required by Chapter 26.027C of the Texas Water Code. A separate attachment is required for each individual customer.
☐ Utility District: Check <u>iWDD</u> to verify that district is not dissolved status (inactive is O.K. to process).
□ Trust: A copy of an executed trust agreement is provided. Verify that applicant's name is the same as the name in the trust agreement. NOTE: Executed trust must show signatures of trustees or beneficiaries forming the trust and the county in which it is recorded.
□ Partnership: Verify with Secretary of State (SOS) that partnership is registered, active, and has a filing number. Check spelling with SOS against the name submitted in Item 1; Check that SOS # is correct; Print page from SOS website. OR if the partnership is not listed with the SOS, the applicant must provide a copy of the partnership agreement. The agreement must: give the name of the partnership as provided on the application for permit; list names of partners; bear signatures of the partners; and state the terms of the partnership.
Municipality/Governmental Agencies/School Districts: City, County, ISD, Fed, etc. – applicable info is listed. Can verify with their public webpage.
☐ Other
Number of employees is marked Customer role is marked Mailing address for the applicant is provided - verify on <u>USPS</u> . This address is for mailing the permit. Email address is provided Telephone number is provided

Section III - Regulated Entity Information
Regulated Entity Name is provided and it matches name on admin report.
Street address or location description of facility is adequately described. If different from current permit, new permit
may be required. Use GIS mapping to confirm street address.
The county where the facility is located is provided.
☐ The name of the hearest city is provided.
The zip code is provided.
The longitude and latitude of the facility is provided – check Map It link by searching for the Additional ID "AI" (WQ permit number) in Central Registry Internal Reporting Tool. Primary SIC Code is provided.
Permit No. listed under appropriate program- if not listed, add it. NOTE: If other program ID numbers are listed and Update to Regulated Entity is checked in Section III, a copy of the CDF should be emailed to Central Registry EAMT at registry@tceq.texas.gov .
Section IV - Preparer Information Name, title, telephone number, and email address are provided.
Section V – Authorized Signature Company name, title, printed name, phone number, signature, and date are provided.
SECTION 4. APPLICATION CONTACT INFORMATION
Administrative and Technical contact name, address, electronic information provided.
SECTION 5. PERMIT CONTACT INFORMATION
2 Permit contact names, addresses, electronic information provided.
SECTION 6. BILLING CONTACT INFORMATION
Billing contact name, address, electronic information provided.
SECTION 7. REPORTING CONTACT INFORMATION
☐ DMR/MER contact name, address, electronic information provided.
SECTION 8. PUBLIC NOTICE INFORMATION
 ■ Minor Amendment <u>without</u> Renewal – NORI not required. Skip review of notice information. ■ Name, address, and phone number of <u>one</u> person responsible for publishing NORI is provided. ■ Method of sending NORI package is provided.
Name and phone number of contact to be in NORI is provided.
Location where application will be available is provided and is in the county where the facility is located - the location must be a building supported by taxpayer funds. Note: If discharge is directly into water body that borders two counties, application must be placed in a public facility in both counties and the notice must be
published in both counties. ☑ Bilingual Items 1 – 5 are completed. If "Yes" to question 1 and "Yes" to either question 2, 3 or 4, then e.5 must be completed Spanson.
Public Involvement Plan (PIP) All New or Major Amendment Applications
For all PIP forms: Section 1 is completed.
☐ Section 1 is completed. ☐ Section 2 is completed. All municipal new and major amendment applications require public notice. Verify the geographic location responses are correct using the <u>statistical area map</u> .
If ALL boxes in Section 2 are checked and verified:
 ☐ Sections 3, 6, and 7 are completed. ☐ Section 4 is completed, or plain language summary was provided by separate attachment for Section 15. ☐ Section 5 is completed. Any languages over 5% in items d and e will require alternative language notice and plain language summary.

SE	CTION 9. REGULATED ENTITY and PERMITTED SITE INFORMATION
धर्वाच्य	Regulated Entity No. is listed. If not, it is not a deficiency. It can be verified with Central Registry and PARIS. Name of project or site is provided. Should correspond to Item 22 on CDF. Owner of the facility identified in the application is the same as the name given in Section 3.A NOTE: THE OWNER OF THE FACILITY IS REQUIRED TO APPLY FOR THE PERMIT (Refer to legal policy memo for complete definition and discussion of facility.) Marked whether ownership of the facility is public, private, or both. Owner of the land where permitted facility is or will be located is the SAME as the applicant. The owner of the land on which the facility is located is DIFFERENT FROM the owner of the facility: A copy of a lease agreement or easement, with a term for the duration of the permit, between applicant and landowner, has been provided. See Lease Agreement/Easement Memo dated 2/14/06, that states that a lease is sufficient for pond systems, and that details the provisions that a lease agreement or easement must contain. Lease must identify property by legal description or map. OR landowner can apply as a co-permittee.
Eff	fluent Disposal Site Owner:
	N/A - (no effluent disposal proposed) If land disposal is authorized in permit or proposed, the applicant OWNS land on which site is located. If applicant DOES NOT OWN land where site is located, a long-term lease agreement is provided which includes: a term of at least 5 years; is current or it includes an option to renew the term; is between the current applicant and the landowner; and includes description of property by legal description or map. (For new TLAP permits only: A copy of an executed option to purchase agreement may be provided to show that applicant will have ownership of the land upon permit approval.)
Se	wage Sludge Disposal Site Owner:
	N/A - (no sludge disposal proposed) If sludge is authorized in permit or proposed, the applicant OWNS land on which disposal site is located, otherwise lease is needed unless Class B sludge is land applied. Check the permit under Sludge Provisions to determine if sludge is authorized. Note: For BLU sludge application – lease is not needed; landowner just needs to sign sludge affidavit (if different from applicant).
Ifs	sludge disposal is proposed or authorized in the permit, the applicant must also submit the applicable sludge forms.
SE	CTION 10. TPDES DISCHARGE INFORMATION
	Checked if treatment facility location in permit is correct. Checked if discharge info in permit is correct. If applicable, the discharge route description is adequately described and describes the discharge route to the nearest major watercourse. Changing the point of discharge and route from the current permit description requires a major amendment. The name of the city (or nearest city) where the outfall(s) is/will be located has been provided. The county where the outfall is located is provided. The longitude and latitude of the outfall is provided. Marked item regarding authorization for discharge into a city, county, or state ditch. If applicable, correspondence is provided. Email TXDOT if discharge is to a state highway right-of-way or roadside ditch.
	For a daily average flow of 5 MGD or more: the names of all counties located within 100 miles downstream from the point of discharge. These counties will be listed on contact sheet.
	CTION 11. TLAP DISPOSAL INFORMATION
	The written location description of the disposal site is adequately described. (NOTE: A CHANGE IN LOCATION OR INCREASE IN ACREAGE REQUIRES A MAJOR AMENDMENT. A decrease in acreage may also be a major amendment (due to flow rate) - check with permit writer) The name of the city (or nearest city) has been provided The county where the disposal site is located is provided The longitude and latitude of the disposal site is provided The written flow of effluent from the facility to the effluent disposal site is adequately described The nearest watercourse to the disposal site is listed

SECTION 12	. MISCI	ELLANEOUS INFORMATION
Identified authority.)		or not facility or discharge are on American Indian Land. If yes, we do not have permit
For permit	s that a	llow sewage sludge disposal the location description is adequately described. For an existing
		ee that the location has not changed any former TCEQ employees who were paid for services regarding this application
Fees or Pe	nalties (Dwed: No Yes - See page 1 of checklist
SECTION 13	ATTAC	HMENTS
		or deed recorded easement, if the land where the treatment facility or the effluent disposal site towned by the applicant or co-applicant.
and renewa applicar treatme point(s)	al applicates along a properties of discharge and a properties applicates and a properties applicates applicate applicates applicates applicates applicates applicates applicate applicates applicate applicates applicates applicates applicates applicates applicate applicates applicates applicates applicates applicates applicate applicates applicates applicates applicates applicate applicates applicate applicates applicates applicates applicates applicates applicate applicates appli	quivalent FULL-SIZED USGS 7.5-minute topographic map (8½ x 11 acceptable for amendment cations) is provided and labeled showing: Derty boundary By boundaries For three miles downstream or a classified segment Graph Full Full
☐ Color☐ Clear☐ Upper☐ Lower☐ Bottor☐	map contour left cor left cor n, magr	Bottom, identify contour intervals Bottom, national map accuracy std. Bottom, show State of TX and quad location Around map, lat and long coordinates Bottom, quadrangle name Bottom, must identify map date
SECTION 14		
the application she is authoriz signatory auth	contair ed, und ority ha	information below lists the proper signatories for the various entities and the current version of this a paragraph referencing 30 TAC 305.44. The person signing the application verifies that he or ler this rule, to sign the application. We must verify that the title meets the requirements or is been delegated.
_	-	e Page is required.
	must b	e properly notarized - check that signature date and notarized date are the same.
<u>Applicant</u>	Co-Ap	pplicant
A		City: Elected official or principle executive officer of the city may be public works director.
		Individual: only the individual signs for himself/herself.
		Partnership: General Partner or exec officer
		Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary)
		Utility District: at least the level of vice president, on Board of Directors or District Manager
		Water Authority: Regional managers.
		School Districts: at least level of the Assistant Superintendent or board members.
		Governmental Agencies: Division Directors or Regional Directors.
		Trust: The trustee that has been identified in the trust agreement.
		Other:
SECTION 15.	PLAIN	LANGUAGE SUMMARY
location, typ	e of fac	nmary in English is provided for all applications. Verify the customer's name, facility name and cility, and flow are consistent with the application and notice. Inmary for any alternative language listed in Section 8, Item E, No. 5 is provided, if applicable.

ADMIN REPORT 1.1 For All New or Major Amendment Applications

SECTION 1. AFFECTED LANDOWNER INFORMATION

Landowner Map:
☐ The applicant's complete property boundaries are delineated which includes boundaries of contiguous property owned by the applicant.
☐ For domestic facilities, show the buffer zone and identify all of the landowners whose property is located within the buffer zone.
☐ The property boundaries of the landowners surrounding the applicant's property have been clearly delineated on the map.
\square The location of the facility within applicant's property is shown.
For TPDES applications:
\square The point(s) of discharge is clearly identified on the map and the discharge route(s) is highlighted.
☐ The scale of map is provided to measure one mile downstream or if discharge is into a lake, bay estuary, or affected by tides, ½ mile up & down stream is measured.
☐ The property boundaries of landowners adjacent to the discharge route(s) for one mile downstream from the point of discharge have been clearly delineated and the route is clearly delineated. OR If discharge is into a lake, bay estuary, or affected by tides, the property boundaries of landowners ½ mile up & downstream and those property owners across the lake along the shore line that fall within a ½ mile radius of the point of discharge are clearly delineated on the map.
For TLAP applications (i.e., irrigation, evaporation, etc.):
\square The boundaries of the disposal site are clearly shown on the map.
\square The boundaries of all landowners surrounding the disposal site are shown.
For all TPDES/TLAP applications:
 □ Cross-referenced list of landowners is provided. □ USB with Microsoft Word document formatted for mailing labels (Avery 5160) or four sets of mailing labels were provided. □ Source of landowners' info was provided.
☐ Provided response regarding permanent school fund land. Check GLO on contact sheet for Yes.
SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)
☐ SPIF is provided and complete/information matches application (TPDES only).☐ SPIF Map is included or confirm USGS map is sufficient.
TECHNICAL REPORT - MUNICIPAL/DOMESTIC APPLICATIONS
☐ Minor Amendment without Renewal. Review not required. Just make sure report is provided.
THE FOLLOWING ITEMS APPLY TO <u>ALL APPLICATIONS</u> :
☐ Technical Report 1.0, Section 1 – The permitted or proposed design flow is indicated. Flow for Final Phase is used to determine application fee and in the notice.
\square If flow indicated is greater than permitted, a major amendment is required. \square If flow amount is less than permitted amount, confirm with applicant they want to reduce the flow.

The permit authorizes irrigation/evaporation/subsurface disposal method (Check current permit "Other Requirements" to see if authorized) or if proposed, the information has been addressed in the technical report
Verify the acreage. If the acreage has changed from what is currently permitted, a major amendment is required. The applicable worksheets must be completed:
 ☐ Worksheet 3.0 - required for land disposal of effluent ☐ Worksheet 3.1 - required for land disposal (new and major amendment only)
Worksheet 3.2 - required for subsurface land disposal (new and major amendment only)
☐ Worksheet 3.3 - required for subsurface area drip dispersal systems (SADDS) (new and major amendment); may be required for renewal on a case-by-case basis.
SADDS Applications: Compliance history items must be completed for SADDS disposal. When the application is administratively complete, a copy of the application and a transmittal letter must be sent to the State Department of Health Services. See the folder titled "SADDS" (under the Individual Permit Review folder) for a template of the letter.
☐ Worksheet 7.0 – required for SADD applications (new and major amendment only) - We do not review the form; we just make sure that it is submitted. If it is not submitted, request it in a NOD.
Sludge disposal and/or land application is authorized in the permit on property owned or under applicant's control. (Check current permit "Sludge Provisions" to see if authorized)
☐ If facility is beneficially applying class B sludge on the same site as the facility, the applicant must submit the Beneficial Land Use of Sewage Sludge (Class B) Permit Application - Form No. 10451 (See Class B Sludge Permit checklist). The applicant must also submit the appropriate sludge application fee.
☐ If authorization is for sludge processing, storage, disposal, composting, marketing and distribution of sludge, sludge surface disposal, or sludge monofill or for temporary storage in sludge lagoons, the applicant must submit the Domestic Wastewater Permit Application: Sewage Sludge Technical Report – Form No. 10056.
Check for:
 □ required signatures (if applicable) □ site acreage □ application area acreage □ site boundaries shown on USGS map
<u>Notes</u> : If the applicant is disposing or land applying sludge on land owned or under their control, but it is not authorized in their permit or by any other TCEQ authorization, a major amendment is required.
If the application is for a new permit or major amendment, then verify the appropriate affected landowner requirements are met.

WHEN	APPLICATION IS <u>NOT</u> ADMINISTRATIVELY COMPLETE:
	Complete NOD. See NOD Notes SOP.
WHEN	APPLICATION IS ADMINISTRATIVELY COMPLETE:
	NORI not required for minor amendment . Complete the Routing and Contact (list "n/a" for item about person responsible for publication of the notice) Blue sheets only.
	Complete NORI package. See NORI Notes SOP.
	Prepare SPIF forms (only for TPDES permits) checked application type entered county name entered administrative completeness date ensured permit number is on form *check agency receiving SPIF Minor amendments - ALL agencies BUT Texas Historical Commission and Army Corps of Engineers Renewals - All agencies BUT Texas Historical Commission New and Major Amendments - All agencies check that the segment number (if known) is entered in receiving water body information. On the accompanying map, delineate the discharge route in such a way that copies will reflect the highlighted discharge route.
	*NOTE: Copy of SPIFs not required for Houston – US Fish and Wildlife and Galveston-US Army Corps of Engineers, Reference SPIF Routing Sheet.

Admin Complete PARIS Entry and Other Reminders

WQ Folder - Application Search	
Application Summary Tab	
\square Verify application Summary and Details. Update as needed.	
Admin Review Tab	
☐ Admin Review Begin Date	
☐ Admin Complete Date	
☐ All NOD Sent, Response Received, Response Complete Dates	
☐ SPIF Required (Yes/No)	
☐ NORI Required (Yes/No)	
Public Participation Tab -	
☐ NORI – Date notice is filed with CCO	
☐ Public Notice Details – Notice Contact Information	
CR Folder - RE Search	
AI Detail Screen - Verify AI Details and Physical Address. Update as needed.	
View Contact List - Enter or Update Contact Information for these roles:	
☐ Owner	
☐ Applicant	
☐ Technical	
☐ Billing	
☐ MER (TLAP only)	
☐ Remove CN affiliation for MER contact (TLAP and TPDES)	
View EPA ID from AI List	
\square View Customer List and verify CN is affiliated to EPA ID or add affiliation.	
<u>OTHER</u>	
☐ Copy notice (and labels for New and Major Amendments), to H:\EVERYONEWQ\Water Quality App Team\Notice of Receipts	
☐ Copy NORI and PLS to H:\EVERYONEWQ\WQD Notices	
☐ Copy contact sheet to H:\EVERYONEWQ\Blue Contact Sheets	
☐ SADDS – Send letter and copy of complete application to Dept. of Health Services	
\square Email TXDOT if discharge is to a <u>state</u> highway right-of-way or roadside ditch	

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:
Application type: Renewal Major Amendment Minor Amendment New
County: Horris Segment Number: 10/7
County: Horris Segment Number: 10/7 Admin Complete Date: 2-7-2024
Agency Receiving SPIF:
Texas Historical Commission U.S. Fish and Wildlife
• •
This form applies to TPDES permit applications only. (Instructions, Page 53)
The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not complete addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.
Oo not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed its entirety including all attachments.
The following applies to all applications:
. Permittee: <u>City of Houston</u>
Permit No. WQ00 <u>10495076</u> EPA ID No. TX <u>0063011</u>
Address of the project (or a location description that includes street/highway, city/vicinity, and county):
5423 Mangum Road, in the City of Houston, Harris County, Texas 77091

		de the name, address, phone and fax number of an individual that can be contacted to er specific questions about the property.
	Prefix	(Mr., Ms., Miss): <u>Mr.</u>
	First a	and Last Name: <u>Walid Samarneh</u>
	Crede	ntial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>
	Title:	Managing Engineer, Houston Public Works
	Mailin	g Address: <u>10500 Bellaire Boulevard</u>
	City, S	State, Zip Code: <u>Houston, Texas 77072</u>
	Phone	No.: <u>832-395-5771</u> Ext.: Click here to enter text. Fax No.: <u>832-395-5838</u>
	E-mail	Address: Walid.Samarneh@houstontx.gov
2.	List th	ne county in which the facility is located: <u>Harris</u>
3.		property is publicly owned and the owner is different than the permittee/applicant, list the owner of the property.
	N/A	
	of effludischa	le a description of the effluent discharge route. The discharge route must follow the flow tent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify ssified segment number.
		Outfall 001 to Cole Creek, thence to White Oak Bayou Above Tidal in Segment No.
	1017	of the San Jacinto River Basin
	plotted route f	provide a separate 7.5-minute USGS quadrangle map with the project boundaries d and a general location map showing the project area. Please highlight the discharge from the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
N/A	Provid	e original photographs of any structures 50 years or older on the property.
N/A	Does y	our project involve any of the following? Check all that apply.
	100 st	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
	betonet	ocuming cures, mactures, smixinores, other kurst reatures

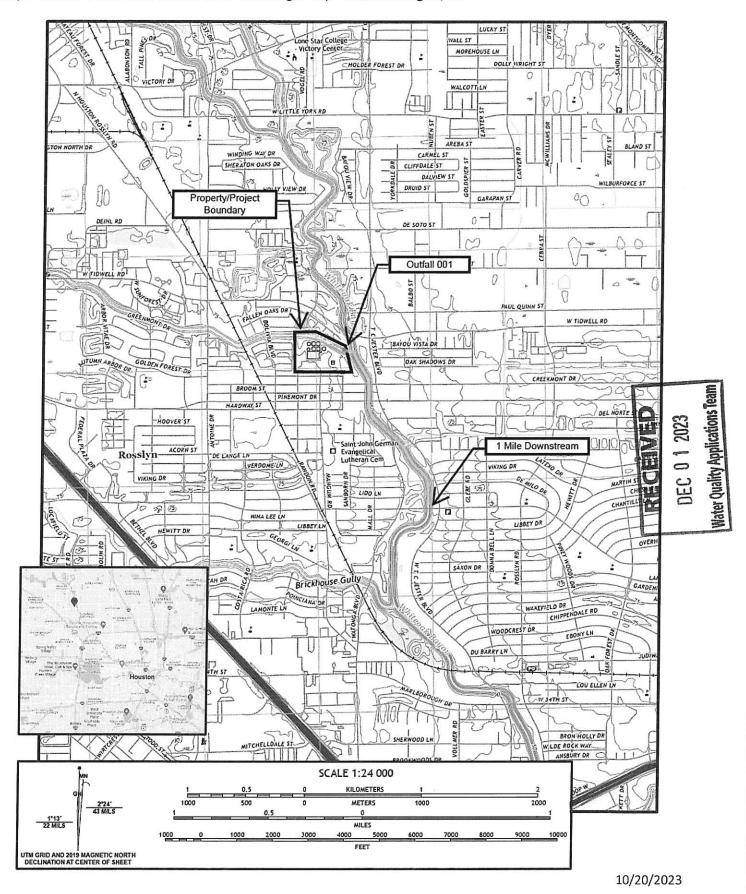
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TCEQ-10053 (10/31/2022) Municipal Wastewater Application Administrative Report

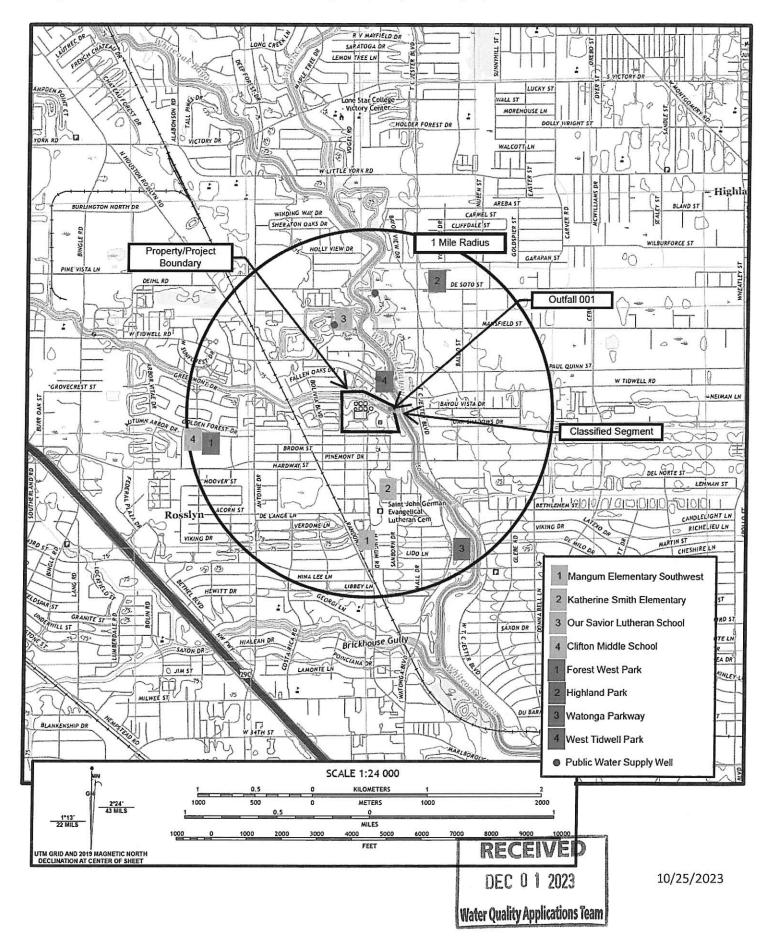
	☐ Disturbance of vegetation or wetlands
6.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	N/A
7	Describe existing disturbances, vegetation, and land use:
	Existing disturbances, vegetation, and land use are those typical of a wastewater treatment facility.
N/ATHI AM	E FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR ENDMENTS TO TPDES PERMITS
8.	List construction dates of all buildings and structures on the property:
	THE RESERVE OF THE PROPERTY OF
9.]	Provide a brief history of the property, and name of the architect/builder, if known.
	Click here to enter text.

Vicinity Map and Edited USGS Map

Reproduced Portion of 7.5-minute USGS Quadrangle Map – Houston Heights, TX



USGS MapReproduced Portion of 7.5-minute USGS Quadrangle Map – Highland Heights, TX



Francesca Findlay

From:

Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Sent:

Wednesday, February 7, 2024 4:39 PM

To:

Francesca Findlay

Subject:

RE: NORI Information for Permit No. WQ0010495076 City of Houston

Name:

Heather Maloney

Title:

Environmental Investigator V

Address:

10500 Bellaire Blvd.

Houston, TX 77072

Phone:

832-395-5756

Thank You,

Walid Samarneh, P. E.
Managing Engineer – Regulatory Compliance
City of Houston | Houston Public Works |
(832) 395-5771 (O) | (713) 501-2782 (C) |

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>

Sent: Wednesday, February 7, 2024 3:53 PM

To: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Subject: RE: NORI Information for Permit No. WQ0010495076 City of Houston

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

Could you please give me all of Heather Maloney information. I need her phone number the address and her title. I need to update the contact information.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail

How is our customer service? Fill out our online customer satisfaction survey at http://www.tceq.texas.gov/customersurvey.

From: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Sent: Wednesday, February 7, 2024 3:41 PM

To: Francesca Findlay < Francesca. Fir. .y@tceq.texas.gov>

Cc: Maloney, Heather - HPW < Heather. Maloney@houstontx.gov>; B'Smith, Rebecca - HPW

< Rebecca. BSmith@houstontx.gov >

Subject: RE: NORI Information for Permit No. WQ0010495076 City of Houston

Hello Francesca,

I would like to inform you that Carol LaBreche has retired effective 1/5/2024. Please remove her from your contacts and add Heather Maloney and Rebecca B'Smith copied on this email for future emails. We appreciate your help.

Thank You,

Walid Samarneh, P. E.

Managing Engineer – Regulatory Compliance
City of Houston | Houston Public Works |
(832) 395-5771 (O) | (713) 501-2782 (C) |

From: Francesca Findlay < Francesca. Findlay@tceq.texas.gov>

Sent: Wednesday, February 7, 2024 3:27 PM

To: Carol.LaBreche@houstontx.gov

Cc: Samarneh, Walid - HPW < Walid. Samarneh@houstontx.gov>

Subject: FW: NORI Information for Permit No. WQ0010495076 City of Houston

[This message came from outside the City of Houston email system. Please be careful while clicking links, opening attachments, or replying to this email.]

No. WQ0010495076

Applicants are required to publish the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit within 30 days of the application being declared administratively complete.

Attached is:

- Letter of Declaration of Administrative Completeness
- Instructions of Public Notice
- 2 Notice of Receipt of Application and Intent to Obtain a Water Quality Permit
- Affidavit of Publication
- Public Notice Verification Form Spanish Nori

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division

512-239-2441

Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail

How is our customer service? Fill out our online customer satisfaction survey at http://www.tceq.texas.gov/customersurvey.





December 15, 2023

Francesca Findlay
Applications Review and Processing Team (MC 148)
Water Quality Division, Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

Subject:

Northwest Wastewater Treatment Facility

Application to Renew TCEQ Permit Number: WQ0010495076, CN600128995, RN101610665

Notice of Deficiency Letter dated December 13, 2023

Dear Ms. Findlay,

A Notice of Deficiency letter outlining items that must be addressed before the above-referenced application can be declared administratively complete was received on December 13, 2023. Please accept the following responses.

- 1. Core Data Form, Section II, items 27-28
 - a. Both the instructions and the core data form indicate these fields are only required if a street address is not provided. The facility's street address is provided in field 23. A revised core data form is not provided.
- 2. Core Data Form, Section III, item 26
 - a. Both the instructions and the core data form indicate this field is only required if a street address is not provided. The facility's street address is provided in field 23. A revised core data form is not provided.
- Please make the following revisions to the portion of the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI).
 - a. "...volume not to exceed a daily an annual average flow of..."
 - b. "...available for viewing and copying at the City of Houston, Houston Public Works, Wastewater Operations Building, 10500 Bellaire..."
 - c. "...stated above or by calling Ms. Carol La Breche, P.E., at..."
- 4. Spanish NORI is attached with the above correction.

Please contact me or Heather Maloney at 832-395-5756 or heather.maloney@houstontx.gov with any questions.

Sincerely,

Walid Samarneh, P.E.

Managing Engineer

City of Houston, Houston Public Works

Attachment(s): Spanish NORI

CL:hm

W:\Facility Records\Northwest076\Permits\Applications\2023Renewal\AdminReview\NW_NODResponse.docx

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. WQ0010495076

SOLICITUD. La Ciudad de Houston, 10500 Bellaire Boulevard, Houston, Texas 77072, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010495076 (EPA I.D. No. TX0063011) 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 anual de 18,000,000 galones por día. La planta de tratamiento de aguas residuales domésticas está ubicada en 5423 Mangum Road, Houston, en el Condado de Harris, Texas 77091. La ruta de descarga es del sitio de la planta al riachuelo Cole Creek; de allí al pantano Whiteoak Bayou por encima de la marea. La TCEQ recibió esta solicitud en Diciembre 1, 2023. La solicitud para el permiso está disponible para leerla y copiarla en la Ciudad de Houston, Trabajos Públicos de Houston, Operaciones de Wastewater edificio, 10500 Bellaire Boulevard, Houston, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.463055,29.844722&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