

This file contains the following documents:

- 1. Summary of application (in plain language)
 - English
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- 2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
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Este archivo contiene los siguientes documentos:

- 1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
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- 2. Primer aviso (NORI, por sus siglas en inglés)
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AR-2

City of Dallas

Southside Wastewater Treatment Plant TPDES Permit Application Plain Language Summary

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

City of Dallas (CN600331730) operates the Southside Wastewater Treatment Plant (RN100762590), which is a domestic wastewater treatment plant facility. The facility is located at 10011 Log Cabin Road, Dallas, Texas 75232.

This application is for a renewal to discharge 110,000,000 gallons (110 MGD) per day of treated wastewater and authorized discharge via main outfall.

The discharge of wastewater via main outfall from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 403. The pollutants expected from these discharges based on 40 CFR Part 403 are: **Attachment F**. Additional potential pollutants are included in the Domestic Wastewater Application Technical Report, Worksheet 4.0.

Domestic wastewater is routed to the Southside Wastewater Treatment Plant, TPDES Permit No. WQ0010060006, for treatment and disposal/discharge. The Liquids Treatment starts with fine screening to remove large items which could clog or damage treatment equipment. The screened wastewater flows are pumped, by six large-capacity centrifugal pumps, to the flow splitter. From the flow splitter, the wastewater flows through the plant (to downstream processes by gravity) and no additional pumping is required. Wastewater can be diverted to the emergency storage basins (two basins consisting of four cells) for storage of wastewater during rain event/peak flows. The stored wastewater is returned to the headworks for processing after the rain event. To further protect downstream equipment, grit removal units separate and remove grit. The grit is washed, concentrated, and diverted to a collection point. The grit is collected and hauled to a municipal landfill. The screened and degritted wastewater flows into primary clarifiers where most of the solids (over 80%) settle out under gravity. Settled solids are pumped to the Solids Treatment and the decant is conveyed into diffused aeration basins. Effluent from the primary clarifiers flow into the aeration basins where it is mixed with "activated" sludge recycled from final clarifiers. Air is pumped into the basin through submerged diffusers to provide oxygen and agitation to the microorganisms. Excess activated sludge is pumped to Solids Treatment and the decant is conveyed to the final clarifiers. Effluent from the aeration basins flows to the final clarifiers where most of the remaining suspended

solids settle out under gravity. Final clarifiers separate the activated solids from the water, producing clear and clean effluent. A portion of the settled activated sludge is recycled to the diffused aeration basins to provide 'active microorganisms" for the aeration process. The remaining activated sludge is sent to Solids Treatment. The final clarifier effluent is dosed with chlorine in the contact basin to kill the harmful bacteria (pathogens), thereby disinfecting the effluent. Effluent filters, comprised of 30 inches of anthracite, remove any remaining very small particles. The residual chlorine in the effluent is then neutralized by dosing the effluent with sulfur dioxide (dechlorinated) before the effluent flows to the Trinity River via main outfall.

The Solids Treatment starts with belt thickening with mixed sludge from the City of Dallas, Central Wastewater Treatment Plant along with primary sludge and waste activated sludge from the Southside Wastewater Treatment Plant that is then blended and thickened from about 1% solids to over 5% solids, using gravity belt thickeners. After thickening, the sludge is pumped to the digesters, where anaerobic bacteria break down the solids to methane, carbon dioxide, ash, and stabilized solids (Class B sludge). The digested sludge is pumped to the dewatering facility. All digested sludge from anaerobic digestion process is dewatered, using belt filter presses, to about 16% solids and a smaller volume of sludge to be disposed. The filtrate from dewatering, which is high in ammonia content, is pumped to sidestream treatment where it is dosed with lime and aerated to remove most of the ammonia before it is returned to the head of the plant for further treatment. All digested and dewatered sludge from dewatering is taken to the 1,100-acre on-site Dedicated Land Disposal (DLD) fields or the 200-acre sludge-only landfill (Monofil) for disposal. Biogas (cleaned of siloxanes and water) from the digesters is used to fuel three Internal Combustion Engines (ICE) each connected to an electricity generator. The electricity generated provides the plant with electricity to use.

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

La ciudad de Dallas (CN600331730) opera la Planta de Tratamiento de Aguas Residuales de Southside (RN100762590), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 10011 Log Cabin Road, Dallas, Texas 75232.

Esta solicitud es para una renovación para descargar 110,000,000 galones (MGD) por día de aguas residuales tratadas y descarga autorizada a través del desagüe principal.

La descarga de aguas residuales a través del desagüe principal de esta instalación está sujeta a las pautas federales de limitación de efluentes en 40 CFR Parte 403. Los contaminantes esperados de estas descargas según 40 CFR Parte 403 son: . Los contaminantes potenciales adicionales se incluyen en el Informe Técnico de Solicitud de Aguas Residuales Domésticas, Hoja de Trabajo 4.0.

Las aguas residuales domésticas se envían a la Planta de Tratamiento de Aguas Residuales de Southside, Permiso TPDES N.º WQ0010060006, para su tratamiento y eliminación/descarga.

El tratamiento de líquidos comienza con un tamizado fino para eliminar los elementos grandes que podrían obstruir o dañar el equipo de tratamiento. Los flujos de aguas residuales tamizadas se bombean, mediante seis bombas centrífugas de gran capacidad, al divisor de flujo. Desde el divisor de flujo, las aguas residuales fluyen a través de la planta (a los procesos posteriores por gravedad) y no se requiere bombeo adicional. Las aguas residuales se pueden desviar a los estanques de almacenamiento de emergencia (dos estanques que constan de cuatro celdas) para el almacenamiento de aguas residuales durante los eventos de lluvia/caudales pico. Las aguas residuales almacenadas se devuelven al divisor de flujo para su procesamiento después del evento de lluvia. Para proteger aún más el equipo aguas abajo, las unidades de eliminación de arena separan y eliminan la arena. La arena se lava, se concentra y se desvía a un punto de recolección. La arena se recoge y se transporta a un vertedero municipal. Las aguas residuales tamizadas y desarenadas fluyen a los clarificadores primarios donde la mayoría de los sólidos (más del 80%) se sedimentan por gravedad. Los sólidos sedimentados se bombean al tratamiento de sólidos y el decantado se transporta a los estangues de aireación difusa. El efluente de los clarificadores primarios fluye hacia los estanques de aireación donde se mezcla con lodos "activados" reciclados de los clarificadores finales. Se bombea aire hacia el estanque a través de difusores sumergidos para proporcionar oxígeno y agitación a los microorganismos. El exceso de lodos activados se bombea al tratamiento de sólidos y el decantado se transporta a los clarificadores finales. El efluente de los estangues de aireación fluye hacia los clarificadores finales donde la mayoría de los sólidos suspendidos restantes se sedimentan por gravedad. Los clarificadores finales separan los sólidos activados del agua, produciendo un efluente claro y limpio. Una parte del lodo activado sedimentado se recicla a los estanques de aireación difusa para proporcionar "microorganismos activos" para el proceso de aireación. El lodo activado restante se envía al tratamiento de sólidos. El efluente del clarificador final se dosifica con cloro en el estanque de contacto para matar las bacterias dañinas (patógenos), desinfectando así el efluente. Los filtros de efluentes, compuestos de 30 pulgadas de antracita, eliminan las partículas muy pequeñas restantes. El cloro residual en el efluente se neutraliza luego dosificándolo con dióxido de azufre (desclorado) antes de que el efluente fluya hacia el río Trinity a través del desagüe principal.

El tratamiento de sólidos comienza con el espesamiento de la banda con lodos mixtos de la planta de tratamiento de aguas residuales central de la ciudad de Dallas junto con lodos primarios y lodos activados de la planta de tratamiento de aguas residuales de Southside que luego se mezclan y espesan desde aproximadamente 1% de sólidos a más de 5% de sólidos, utilizando espesadores de banda por gravedad. Después del espesamiento, el lodo se bombea a los digestores, donde las bacterias anaeróbicas descomponen los sólidos en metano, dióxido de carbono, cenizas y sólidos estabilizados (lodos de clase B). El lodo digerido se bombea a la instalación de deshidratación. Todo el lodo digerido del proceso de digestión anaeróbica se deshidrata, utilizando prensas de filtro de banda, hasta aproximadamente un 16% de sólidos y un volumen menor de lodo para eliminar. El filtrado de la deshidratación, que tiene un alto contenido de amoníaco, se bombea al tratamiento de corriente secundaria donde se dosifica con cal y se airea para eliminar la mayor parte del amoníaco antes de que se devuelva a la cabecera de la planta para un tratamiento posterior. Todo el lodo digerido y deshidratado de la deshidratación se lleva a los campos de eliminación en tierra dedicados (DLD) de 1100 acres en el sitio o al vertedero de lodos de 200 acres (Monofil) para su eliminación. El biogás (limpio de siloxanos y agua) de los digestores se utiliza para alimentar tres motores de combustión interna (ICE), cada uno conectado a un generador de electricidad. La electricidad generada proporciona a la planta la electricidad que necesita.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010060006

APPLICATION. City of Dallas, 1500 Marilla Street, Room 4AN, Dallas, Texas 75201, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010060006 (EPA I.D. No. TX0047848) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 110,000,000 gallons per day. The domestic wastewater treatment facility is located at 10011 Log Cabin Road, in the City of Dallas, in Dallas County, Texas 75253. The discharge route is from the plant site directly to the Upper Trinity River. TCEQ received this application on November 25, 2024. The permit application will be available for viewing and copying at Dallas City Hall, Room 4AN, 1500 Marilla Street, Dallas, in Dallas County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.645833,32.643888&level=18

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

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Dallas at the address stated above or by calling Mr. Zachary Peoples, Deputy Director-Wastewater and Stormwater Programs, at 214-670-3145.

Issuance Date: December 11, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO NO. WQ0010060006

SOLICITUD. Cuidad de Dallas, 1500 Marilla Street, Room 4AN, Dallas, Texas 75201 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010060006 (EPA I.D. No. TX 0047848) 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 110,000,000 por día. La planta está ubicada 10011 Log Cabin Road en el Condado de Dallas, Texas. La ruta de descarga es del sitio de la planta a Upper Trinity River. La TCEQ recibió esta solicitud el 25 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Dallas City Hall, Room 4AN, 1500 Marilla Street, Dallas, in Dallas County, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.645833,32.643888&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener información adicional del la cuidad de Dallas a la dirección indicada arriba o llamando a Mr. Zachary Peoples al 214-670-3145.

Fecha de emission: 11 de diciembre de 2024



Southside Wastewater Treatment Plant Renewal Application For TPDES Permit No. WQ0010060006

Submitted To:

Texas Commission On Environmental Quality

November 2024

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION

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CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION

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E3.	Solids Generation	Form 10054, Page 8 of 66, Section 6G.1
F.	Pollutant Analysis of Treated Effluent	Form 10054, Page 10 of 66, Section 7
G.	General Highway (County) Map	Form 10054, Page 13 of 66, Section 11A
H.	USDA Natural Resources Conservation Service Soil Map	Form 10054, Page 13 of 66, Section 11A
1.	Federal Emergency Management Plan	Form 10054, Page 13 of 66, Section 11A
J1.	Groundwater Monitoring Well Information (Text)	Form 10054, Page 15 of 66, Section 11E
J2.	Groundwater Soil Types (Log of Boring)	Form 10054, Page 15 of 66, Section 11E
K.	Pollutant Analysis Requirements (Toxic Pollutants)	Form 10054, Page 44 of 66, Section 1
L.	Toxicity Testing Requirements	Form 10054, Page 56 of 66, Section 1
M.	Summary of WET Tests	Form 10054, Page 57 of 66, Section 3
N.	Effluent Parameters above the MAL	Form 10054, Page 60 of 66, Section 2C
Ο.	Engineering Report	Form 10056, Page 1 of 15, Section 1A
P1.	Groundwater Monitoring Well Information (Table)	Form 10056, Page 2 of 15, Section 4
P2.	Groundwater Well Location Map	Form 10056, Page 2 of 15, Section 4
Q.	SWWTP Total Sludge Disposal	Form 10056, Page 12 of 15, Section 2C
R.	TCLP Test Results	Form 10056, Page 12 of 15, Section 2D
S.	Drainage Design Calculations	Form 10056, Page 13 of 15, Section 3D
T1.	Site Development Plan	Form 10056, Page 13 of 15, Section 4A
T2.	Initial Monofil Plan	Form 10056, Page 13 of 15, Section 4A
Т3.	Monofil Progress Plan	Form 10056, Page 13 of 15, Section 4A
T4	Working Face Sections	Form 10056, Page 13 of 15, Section 4A
T5	Monofil Lift Sequence	Form 10056, Page 13 of 15, Section 4A

Т6	One Day Fill Amount	Form 10056, Page 13 of 15, Section 4A
T7	Deed of Recordation	Form 10056, Page 13 of 15, Section 4A
U.	Pollutant Concentrations in Sewage Sludge	Form 10056, Page 15 of 15, Appendix A

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT	NAME:	City	of Dallas

PERMIT NUMBER (If new, leave blank): WQ00 10060-006

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

	Y	N		Y	N
Administrative Report 1.0	\boxtimes		Original USGS Map	\boxtimes	
Administrative Report 1.1			Affected Landowners Map		
SPIF			Landowner Disk or Labels		\boxtimes
Core Data Form			Buffer Zone Map		
Public Involvement Plan Form			Flow Diagram	\boxtimes	
Technical Report 1.0	\boxtimes		Site Drawing	\boxtimes	
Technical Report 1.1			Original Photographs		\boxtimes
Worksheet 2.0	\boxtimes		Design Calculations	\boxtimes	
Worksheet 2.1			Solids Management Plan	\boxtimes	
Worksheet 3.0			Water Balance		\boxtimes
Worksheet 3.1					
Worksheet 3.2					
Worksheet 3.3					
Worksheet 4.0					
Worksheet 5.0	\boxtimes				
Worksheet 6.0	\boxtimes				
Worksheet 7.0		\boxtimes			

For TCEQ Use Only	
Segment Number	County
Expiration Date	Region
Permit Number	

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

wastewater permit applications. To ensure the timely processing of review the items below and indicate by checking Yes that each item accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If this application, indicate by checking N/A where appropriate. Please application until the items below have been addressed.	this a is co an it	applica mplete tem is r	tion, and iot re	please in equired
Core Data Form (TCEQ Form No. 10400) (Required for all application types. Must be completed in its entirety a Note: Form may be signed by applicant representative.)	ınd s	igned.		Yes
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or late			\boxtimes	Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for	mai	ling ad	⊠ dress	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		N/A		Yes
Landowners Map (See instructions for landowner requirements)		N/A		Yes
 Things to Know: All the items shown on the map must be labeled. The applicant's complete property boundaries must be de boundaries of contiguous property owned by the applicant. The applicant cannot be its own adjacent landowner. You landowners immediately adjacent to their property, regard from the actual facility. If the applicant's property is adjacent to a road, creek, or so on the opposite side must be identified. Although the propapplicant's property boundary, they are considered potent of the adjacent road is a divided highway as identified on the map, the applicant does not have to identify the landowned the highway. 	t. musi lless strea perti tially the U	t identi of how m, the es are i affecte ISGS to	fy the far lande and lande	e they are owners djacent to ndowners. aphic
Landowners Cross Reference List (See instructions for landowner requirements)		N/A		Yes
andowners Labels or USB Drive attached ⊠ N/A □ Yes See instructions for landowner requirements)				
Original signature per 30 TAC § 305.44 - Blue Ink Preferred				
Plain Language Summary			\boxtimes	Yes

PARTA ON THE CONTROL OF THE CONTROL

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 26)

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:

Mailed Check/Money Order Number: N/A

Check/Money Order Amount: N/A

Name Printed on Check: N/A

EPAY Voucher Number: BS00112278

Copy of Payment Voucher enclosed? Yes \boxtimes

Section 2. Type of Application (Instructions Page 26)

a.	Che	ck the box next to the appropriate authorization type.
		Publicly-Owned Domestic Wastewater
		Privately-Owned Domestic Wastewater
		Conventional Wastewater Treatment
b.	Che	ck the box next to the appropriate facility status.
		Active D Inactive

c.	Check the box next to the appropriate permit type.			
	\boxtimes	TPDES Permit		
		TLAP		
		TPDES Permit with TLAP component		
		Subsurface Area Drip Dispersal System (SAD	DS)	
d.	Che	eck the box next to the appropriate application	n typ	e
		New		
		Major Amendment with Renewal		Minor Amendment with Renewal
		Major Amendment without Renewal		Minor Amendment without Renewal
	\boxtimes	Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	sed changes: Click to enter text.
f.	For	existing permits:		
	Peri	mit Number: WQ00 <u>10060006</u>		
	EPA	A I.D. (TPDES only): TX <u>0047848</u>		
	Exp	oiration Date: <u>06/05/2025</u>		

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 26)

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 Dallas

(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: 600331730

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. Last Name, First Name: Peoples, Zachary

Title: Deputy Director - Wastewater and Stormwater Programs Credential: N/A

B. 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?

N/A

(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: N/A

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: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

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 $1.0.\ N/A$

Section 4. Application Contact Information (Instructions Page 27)

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. Last Name, First Name: Peoples, Zachary

Title: <u>Deputy Director - Wastewater and Stormwater Programs</u> Credential: <u>N/A</u>

Organization Name: City of Dallas (Southside Wastewater Treatment Plant)

Mailing Address: 10011 Log Cabin Road City, State, Zip Code: Dallas, TX, 75253

Phone No.: (214) 670-3145 E-mail Address: Zachary.peoples@dallas.gov

Check one or both:

Administrative Contact

Technical Contact

B. Prefix: Mr. Last Name, First Name: Irenumaagho, Nosa

Title: Superintendent Credential: P.E.

Organization Name: City of Dallas (Southside Wastewater Treatment Plant)

Mailing Address: 10011 Log Cabin Road City, State, Zip Code: Dallas, TX, 75253

Phone No.: (214) 670-0426 E-mail Address: n.irenmaagho@dallas.gov

Check one or both:

Administrative Contact

Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr. Last Name, First Name: Peoples, Zachary

Title: <u>Deputy Director - Wastewater and Stormwater Programs</u>

Credential: <u>N/A</u>

Organization Name: City of Dallas (Southside Wastewater Treatment Plant)

Mailing Address: 1500 Marilla Street, Room 4AN City, State, Zip Code: Dallas, TX, 75201

Phone No.: (214) 670-3145 E-mail Address: Zachary.peoples@dallas.gov

B. Prefix: Mr. Last Name, First Name: Irenumaagho, Nosa

Title: <u>Superintendent</u> Credential: <u>P.E.</u>

Organization Name: City of Dallas (Southside Wastewater Treatment Plant)

Mailing Address: 10011 Log Cabin Road City, State, Zip Code: Dallas, TX, 75253

Phone No.: (214) 670-0426 E-mail Address: n.irenmaagho@dallas.gov

Section 6. Billing Contact Information (Instructions Page 27)

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: Mrs. Last Name, First Name: Phillips, Barbara

Title: Office Assistant II Credential: N/A

Organization Name: City of Dallas (Dallas Water Utilities)

Mailing Address: 10011 Log Cabin Road City, State, Zip Code: Dallas, TX, 75253

Phone No.: (214) 670-0449 E-mail Address: <u>Barbara.phillips@dallas.gov</u>

Section 7. DMR/MER Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Peoples, Zachary

Title: Deputy Director - Wastewater and Stormwater Programs Credential: N/A

Organization Name: City of Dallas (Dallas Water Utilities)

Mailing Address: 1500 Marilla Street, Room 4AN City, State, Zip Code: Dallas, TX, 75201

Phone No.: 214) 670-3145 E-mail Address: Zachary.peoples@dallas.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Peoples, Zachary

Title: Deputy Director - Wastewater and Stormwater Programs Credential: N/A

Organization Name: City of Dallas (Dallas Water Utilities)

Mailing Address: 1500 Marilla Street, Room 4AN City, State, Zip Code: Dallas, TX 75201

Phone No.: (214) 670-3145 E-mail Address: Zachary.peoples@dallas.gov

	В.	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 permit to be listed in the Notices
		Prefix: Mr. Last Name, First Name: Peoples, Zachary
		Title: <u>Deputy Director - Wastewater and Stormwater Programs</u> Credential: <u>N/A</u>
		Organization Name: City of Dallas (Southside Wastewater Treatment Plant)
		Mailing Address: 1500 Marilla Street, Room 4AN City, State, Zip Code: Dallas, TX, 75201
		Phone No.: (214) 670-3145 E-mail Address: Zachary.peoples@dallas.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: <u>City Hall</u>
		Location within the building: Room 4AN
		Physical Address of Building: <u>1500 Marilla Street</u>
		City: <u>Dallas</u> County: <u>Dallas</u>
		Contact (Last Name, First Name): <u>Peoples, Zachary</u>
		Phone No.: <u>(214) 670-3145</u> Ext.: <u>N/A</u>
	E.	Bilingual Notice Requirements
		This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.
		This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.
		Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.
		1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?
		⊠ Yes □ No
		If no , publication of an alternative language notice is not required; skip to 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

 \boxtimes

Yes

	3.	Do the locatio		these	schools attend a bilingual education program at another
			Yes	\boxtimes	No
	4.			_	uired to provide a bilingual education program but the school has rement under 19 TAC §89.1205(g)?
			Yes	\boxtimes	No
	5.				uestion 1, 2, 3, or 4 , public notices in an alternative language are the is required by the bilingual program? Spanish
F.	Pla	ain Lang	guage Summ	ary T	l'emplate
	Со	mplete	the Plain Laı	nguag	ge Summary (TCEQ Form 20972) and include as an attachment.
	At	tachme	nt: <u>AR-2</u>		
G.	Pu	blic Inv	olvement P	lan Fo	orm
	Со	mplete	the Public Ir	volve	ement Plan Form (TCEQ Form 20960) for each application for a
	ne	w perm	it or major	amen	dment to a permit and include as an attachment.
	At	tachme	nt: <u>N/A</u>		
C	- 4.5	- 0	Domila		
Se	CU	ion 9.	Page 29		Entity and Permitted Site Information (Instructions
A.			is currently RN <u>10076259</u>	_	ated by TCEQ, provide the Regulated Entity Number (RN) issued to
			e TCEQ's Cer currently re		Registry at http://www15.tceq.texas.gov/crpub/ to determine if ed by TCEQ.
B.	Na	me of p	project or sit	e (the	name known by the community where located):
	So	uthside '	Wastewater T	reatme	ent Plant
C.	Ov	vner of	treatment fa	cility:	: City of Dallas
	Ov	vnershij	p of Facility:		Public □ Private □ Both □ Federal
D.	Ov	vner of	land where t	reatm	nent facility is or will be:
	Pr	efix: <u>N/</u>	<u>A</u>		Last Name, First Name: <u>N/A</u>
	Ti	tle: <u>N/A</u>			Credential: <u>N/A</u>
	Or	ganizat	ion Name: <u>C</u>	ity of I	<u>Dallas</u>
	Ma	ailing A	ddress: <u>1500</u>	Marill	la Street, Room 4 AN City, State, Zip Code: Dallas, TX, 75201
	Ph	one No	: (214) 670-3	145	E-mail Address: Zachary.peoples@dallas.gov
					same person as the facility owner or co-applicant, attach a lease d easement. See instructions.
		Attach	ment: <u>N/A</u>		

TCEQ-10053 (01/09/2024) Domestic Wastewater Permit Application Administrative Report

	Prefix: <u>N/A</u>	Last Name, First Name: <u>N/A</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: <u>N/A</u>	
	Mailing Address: <u>N/A</u>	City, State, Zip Code: <u>N/A</u>
	Phone No.: <u>N/A</u>	E-mail Address: <u>N/A</u>
	If the landowner is not the same agreement or deed recorded ease	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: <u>N/A</u>	
F.	Owner sewage sludge disposal si property owned or controlled by	ite (if authorization is requested for sludge disposal on the applicant)::
	Prefix: <u>N/A</u>	Last Name, First Name: <u>N/A</u>
	Title: <u>N/A</u>	Credential: <u>N/A</u>
	Organization Name: City of Dallas	3
	Mailing Address: 1500 Marilla Str	eet, Room 4AN City, State, Zip Code: <u>Dallas, TX, 75201</u>
	Phone No.: <u>(214)</u> 670-3145	E-mail Address: Zachary.peoples@dallas.gov
	If the landowner is not the same agreement or deed recorded ease	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: N/A	
Se		ge Information (Instructions Page 31)
	ction 10. TPDES Dischar	ge Information (Instructions Page 31) lity location in the existing permit accurate?
	ction 10. TPDES Dischar	
	ction 10. TPDES Dischar Is the wastewater treatment facil	
	ction 10. TPDES Dischar Is the wastewater treatment facil	lity location in the existing permit accurate?
	ction 10. TPDES Dischar Is the wastewater treatment facil	lity location in the existing permit accurate?
A.	ction 10. TPDES Dischar Is the wastewater treatment facil	lity location in the existing permit accurate?
A.	ction 10. TPDES Dischar Is the wastewater treatment facil	lity location in the existing permit accurate? on, please give an accurate description:
A.	ction 10. TPDES Dischar Is the wastewater treatment facil	lity location in the existing permit accurate? on, please give an accurate description:
A.	ction 10. TPDES Dischar Is the wastewater treatment facil	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the
A.	The wastewater treatment facility and the wastewater treatment facility. Yes □ No If no, or a new permit application N/A Are the point(s) of discharge and wastewater treatment point of discharge and the discharge and the discharge and the discharge N/A	on, please give an accurate description: If the discharge route(s) in the existing permit correct? Dermit application, provide an accurate description of the large route to the nearest classified segment as defined in 30
A.	Ction 10. TPDES Dischar Is the wastewater treatment facil	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30. EDallas
А.	ction 10. TPDES Dischar Is the wastewater treatment facil	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30. EDallas s/are located: Dallas County
А.	ction 10. TPDES Dischar Is the wastewater treatment facil	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30. E Dallas s/are located: Dallas County discharge to a city, county, or state highway right-of-way, or
А.	Is the wastewater treatment facil ✓ Yes ☐ No If no, or a new permit application of the point of discharge and the dis	on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 and 50 are located: Dallas Solare located: Dallas County discharge to a city, county, or state highway right-of-way, or

E. Owner of effluent disposal site:

	If yes, indicate by a check mark if:
	☐ Authorization granted ☐ Authorization pending
	For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: N/A
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: Anderson, Dallas, Ellis, Freestone, Henderson, Kaufman, and Navarro Counties
Se	ction 11. TLAP Disposal Information (Instructions Page 32)
Δ	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
2 N.	☐ Yes ☐ No
	If no, or a new or amendment permit application , provide an accurate description of the
	disposal site location:
	N/A
В.	City nearest the disposal site: N/A
	County in which the disposal site is located: N/A
D.	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
	N/A
F	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall
	runoff might flow if not contained: N/A
Se	ection 12. Miscellaneous Information (Instructions Page 32)
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 □ 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.
	N/A

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: N/A
D	. Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes , provide the following information:
	Account number: N/A
	Amount past due: N/A
E	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If yes , please provide the following information:
	Enforcement order number: N/A
	Amount past due: N/A
S	ection 13. Attachments (Instructions Page 33)
Ir	dicate 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.
\boxtimes	Original full-size USGS Topographic Map with the following information:
	 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: AR-1: Copy of Payment Voucher, AR-2: Plain Language

Summary, AR-3: USGS Map (3-mile), AR-4: USGS Map (1-mile), SPIF-1: USGS Quadrangle Map (7.5 minute), SPIF-2: General Location Map, SPIF-3: Service Area Map, CD-1: Permits, Registrations, or Other

Authorizations

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010060-006

Applicant: City of Dallas

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.

1 1 ...

FELICIA SMITH-NIEMRITZ Notary Public, State of Texas Notary ID#: 13335250-2 My Commission Expires 09-20-2025

Signatory name (typed or printed): Zachary Peoples

Signatory title: Deputy Director - Wastewater and Stormwater Programs

Signature:	m	an	<u> </u>	Date://	115/24
	(Use blue ink)				
Subscribed a	and Sworn to before	me by the	e said/	Jachary Peop	ples
on this	15		Novem		
My commiss	ion expires on the_	20	day of_	September	, 20 25 .
	0			,	

Notary Public

Dallas County, Texas

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

	CEQ USE ONLY:
	pplication type:RenewalMajor AmendmentMinor AmendmentNew
1	ounty: Segment Number:
	dmin Complete Date:
	gency Receiving SPIF:
ł .	Texas Historical Commission U.S. Fish and Wildlife
_	Texas Parks and Wildlife Department U.S. Army Corps of Engineers
Thi	is form applies to TPDES permit applications only. (Instructions, Page 53)
our is n	mplete this form as a separate document. TCEQ will mail a copy to each agency as required by agreement with EPA. If any of the items are not completely addressed or further information leeded, we will contact you to provide the information before issuing the permit. Address h item completely.
atta app con may	not refer to your response to any item in the permit application form. Provide each achment for this form separately from the Administrative Report of the application. The olication will not be declared administratively complete without this SPIF form being appleted in its entirety including all attachments. Questions or comments concerning this form by be directed to the Water Quality Division's Application Review and Processing Team by all at WO-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.
The	e following applies to all applications:
1.	Permittee: City of Dallas (Southside Wastewater Treatment Plant)
į	Permit No. WQ00 <u>10060-006</u> EPA ID No. TX <u>0047848</u>
	Address of the project (or a location description that includes street/highway, city/vicinity, and county):
	10011 Log Cabin Road, Dallas, Texas 75253, Dallas County

		e the name, address, phone and fax number of an individual that can be contact specific questions about the property.	ted to
	Prefix (Mr., Ms., Miss): Mr.	
	First an	nd Last Name: Nosa Irenumaagho	
		itial (P.E, P.G., Ph.D., etc.): <u>P.E.</u>	
	Title: S	uperintendent	
	Mailing	g Address: 10011 Log Cabin Road	
	City, St	rate, Zip Code: <u>Dallas, Texas 75253</u>	
	Phone !	No.: (214) 670-0426 Ext.: Fax No.: (214) 670-0271	
	E-mail	Address: <u>n.irenumaagho.dallas.gov</u>	
2.	List the	e county in which the facility is located: <u>Dallas</u>	
3.	please	property is publicly owned and the owner is different than the permittee/application list the owner of the property.	cant,
	N/A		
4.	of efflu dischar	e a description of the effluent discharge route. The discharge route must follow tent from the point of discharge to the nearest major watercourse (from the point ge to a classified segment as defined in 30 TAC Chapter 307). If known, please ssified segment number.	t of
		ffluent discharges to the Upper Trinity River in Segment No. 0805 of the Trinit	y River
	Basin.		
5.	plotted route f	provide a separate 7.5-minute USGS quadrangle map with the project boundard and a general location map showing the project area. Please highlight the discrementation to discharge for a distance of one mile downstream. (This map and in addition to the map in the administrative report).	charge
	Provide	e original photographs of any structures 50 years or older on the property.	
	Does y	our project involve any of the following? Check all that apply.	
		Proposed access roads, utility lines, construction easements	
		Visual effects that could damage or detract from a historic property's integri	ty
		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	
TC	<u>-</u> FΩ-20071		ze 2 of 2

		sisturbance of vegetation or wetlands
1.		osed construction impact (surface acres to be impacted, depth of excavation, sealing or other karst features):
2	Describe	aviating disturbances, vegetation, and land uses
۷.		existing disturbances, vegetation, and land use: rent land use is a wastewater treatment plant
		VING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR ITS TO TPDES PERMITS
3.		truction dates of all buildings and structures on the property:
	N/A	
4	Provide a	brief history of the property, and name of the architect/builder, if known.
7.	N/A	brief instory of the property, and hame of the architect/bulluer, if known.

TCEQ Use Only



TCEQ Core Data Form

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

SECTION I: General Information

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

☐ New Perr	mit, Registra	ation or A	Authorization	(Core Data F	orm should be	submitt	ted with	h the prog	gram ap	olication.)				
Renewal (Core Data Form should be submitted with the renewal form)								0	Other					
2. Customer	Reference	Numb	er (if issued)		Follow this									
CN 6003317	730				Central F			RN 1	100762	00762590				
ECTIO	N II:	Cus	tomer	Infor	mation	<u>1</u>								
4. General Co	ustomer Ir	nformat	ion	5. Effecti	ve Date for C	ustome	er Info	rmation	Updat	es (mm/da	1/yyyy)	<u>. </u>	11/1/2024	
☐ New Custo	mer		⊠ ∪	pdate to Cus	stomer Informa	ation		Char	nge in Re	egulated Er	ntity Own	ership		
Change in L	egal Name	(Verifiab	le with the Te	xas Secretar	y of State or Te	exas Con	nptrolle	er of Publi	ic Accou	nts)	·	·		
The Custome	r Name su	ıbmitte	d here may	be updated	l automatica	lly base	ed on 1	what is c	urrent	and activ	e with th	ne Texas Sec	retary of State	
(SOS) or Text	as Comptro	oller of	Public Accou	ınts (CPA).										
6. Customer	Legal Nam	e (If an	individual, pri	nt last name	first: eg: Doe,	John)			<u>If new</u>	Customer,	enter pr	evious Custon	ner below:	
City of Dallas														
7. TX SOS/CP	A Filing N	umber		8. TX Stat	te Tax ID (11 o	digits)			9. Fe	deral Tax	ID	10. DUNS	Number (if	
17560005088				175600050	17550005000			/O dia	applicable)					
17300003088				17560005088				(9 digits		its)	044634483			
									75 60	00508				
11. Type of C	ustomer:		Corporat	tion		.,		Individ	dual		Partne	rship: 🔲 Ger	neral 🗌 Limited	
Government:	City 🔲 (County	Federal 🗌	Local 🔲 Sta	ate 🗌 Other			Sole P	roprieto	rship	Ot	ner:		
12. Number	of Employ	ees							13. lr	depende	ntly Ow	ned and Op	erated?	
0-20	21-100] 101-25	50 🗌 251-	500 🛮 50	01 and higher				⊠ Ye	s	☐ No			
14. Custome	r Role (Pro	posed or	Actual) – as i	t relates to t	he Regulated E	ntity list	ted on	this form.	Please (theck one o	of the follo	owing		
Owner		Оре	erator		Owner & Opera	ator				Other				
Occupation	al Licensee	☐ Re	esponsible Pa	rty [VCP/BSA Ap	plicant				_ other				
15. Mailing	1500 Mai	rilla Stree	et Room 4AN											
Address:														
Address.	City	Dallas			State	TX		ZIP	75201 ZIP + 4					
16. Country I	Mailing Inf	ormatio	on (if outside	USA)	1		17. [-Mail A	ddress	(if applicab	ile)		1	
							zach	ary.people	es@dall	as.gov				
18. Telephone Number 19. Extension or Code						ode	e 20. Fax Number (if applicable)							

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(214) 670-3145		(214) 670-7404
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SECTION III: Regulated Entity Information

21. General Regulated En	tity Informa	ition (If 'New Reg	gulated Entity" is selec	ted, a new p	ermit appli	cation is d	ilso required.)		
New Regulated Entity	Update to	Regulated Entity	Name 🛚 Update t	o Regulated	Entity Infor	mation			_
The Regulated Entity Namas Inc, LP, or LLC).	ne submitte	d may be upda	ted, in order to med	et TCEQ Coi	re Data St	andards	(removal of or	ganization	al endings such
22. Regulated Entity Nam	e (Enter nam	e of the site wher	re the regulated action	is taking pla	ice.)				
CITY OF DALLAS SOUTHSIDE	WWTP		•						
23. Street Address of the Regulated Entity:	10011 Log (Cabin Road							
(No PO Boxes)	City	Dallas	State	ТХ	ZIP	7525	3	ZIP + 4	4102
24. County	Dallas			1	1				
	I	If no Stree	et Address is provid	led, fields 2	5-28 are	required	•		
25. Description to Physical Location:	N/A								
26. Nearest City						State		Nea	rest ZIP Code
Seagoville						TX		7515	9
Latitude/Longitude are re used to supply coordinate					Data Stand	dards. (G	Geocoding of th	e Physical	Address may be
27. Latitude (N) In Decim	al:	32.6395776		28. Longitude (W) In Decimal:			ecimal:	-96.5383228	
Degrees	Minutes		Seconds	Degre	Degrees		Minutes		Seconds
32		38	22		096		32		18
29. Primary SIC Code (4 digits)		Secondary SIC igits)	Code	31. Primary NAICS Code (5 or 6 digits) 32. Secondar (5 or 6 digits)					CS Code
4952	495	2		22132			221320		
33. What is the Primary I	Business of t	this entity? (D	o not repeat the SIC o	r NAICS desci	ription.)				
Treatment of domestic wast	ewater								
34. Mailing	1500 Mari	illa 5treet Room	4AN						
Address:									
	City	Dallas	State	тх	ZIP	752	01	ZIP + 4	
35. E-Mail Address:	zac	hary.peoples@da	allas.gov						
36. Telephone Number			37. Extension or	Code	38	Fax Nu	mber (if applicat	ole)	

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

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☐ Dam Safety		Districts	Edwards Aquifer		Emissions Inventory Air	☑ Industrial Hazardous Waste		
☐ Municipal Sol	id Waste	New Source Review Air	OSSF	×	Petroleum Storage Tank	PWS		
☐ Sludge ☐ Voluntary Cleanup		Storm Water	☐ Title V Air		Tires	Used Oil		
			☐ Wastewater Agricu	ilture	Water Rights	Other:		
	IV: Pro	eparer In	<u>formation</u>	41. Title:	Engineer Assistant			
42. Telephone N		43. Ext./Code	44. Fax Number	45. E-Mail				
(214)670-0926			(214)670-0271	conner.tyne	s@dallas.gov			
	below, I certify		nowledge, that the informat			te, and that I have signature authorit		
	on behalf of the	entity specified in So	ection II, Field 6 and/or as re	equired for the u	pdates to the ID numbers id	entified in field 39.		
	City of Dal		ection II, Field 6 and/or as re	Job Title:		entified in field 39.		
o submit this form o		las	ection II, Field 6 and/or as re	T				

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COMMISSION OF THE PROPERTY OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 110

2-Hr Peak Flow (MGD): 195

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 12/01/1990

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

than one phase exists or is proposed, a description of each phase must be provided.

See Attachment A

finish with the point of discharge. Include all sludge processing and drying units. If more

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)
See Attachment B		
*		

C. Process Flow Diagram

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

Attachment: C

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

• Latitude: 32.637429 N

Longitude: 96.646602 W

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

• Latitude: N/A

• Longitude: N/A

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: D

The Southside Wastewater Tr wholesale customers: Addison Mesquite, Richardson, Seago	reatment Plant serves n, Cockrel Hill, Dallas	the City of Dallas along wi County, Duncanville, Hig	th the following
Collection System Informati each uniquely owned collection systems. examples.	ction system, existir	ng and new, served by th	nis facility, including
Collection System Informatio	n		
Collection System Name	Owner Name	Owner Type	Population Served
DWU Wastewater Collection	City of Dallas	Publicly Owned	1,394,789
Section 4. Unbuilt F	hases (Instruc	tions Page 45)	
Is the application for a rene	wal of a permit that	contains an unbuilt ph	ase or phases?
□ Yes ⊠ No			
If yes, does the existing per years of being authorized b		e that has not been cons	tructed within five
□ Yes □ No			
If yes, provide a detailed dis Failure to provide sufficient recommending denial of the	nt justification may	result in the Executive	
N/A			
Section 5. Closure I	Plans (Instructi	ons Page 45)	
Have any treatment units be out of service in the next fiv		vice permanently, or wi	ll any units be taken
□ Yes ⊠ No			

11)	Was a closure plan submitted to the TCEQ:
Tf -	\square Yes \square No ∇ es, provide a brief description of the closure and the date of plan approval.
N,	/A
Fo	ction 6. Permit Specific Requirements (Instructions Page 45) applicants with an existing permit, check the Other Requirements or Special existions of the permit.
A.	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	⊠ Yes □ No
	If yes, provide the date(s) of approval for each phase: 12/01/1990
	Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> 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 □ No
	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.
	N/A

C.	Ot	her actions required by the current permit							
	su	bes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc.							
	⊠ Yes □ No								
		yes , provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .							
		atest annual report: Reporting Requirements for Sludge, Soil, and Groundwater was submitted to CEQ on September 16, 2024.							
D.	Gr	it 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.							
	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.							
		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 512-239-2335. 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.
		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 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		N/A
E.	Sto	ormwater 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?
		□ 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 □ No
		If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		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:
	N/A
1.	Existing coverage in individual permit
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes ⊠ No
	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.
	N/A
),	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes ⊠ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	N/A
	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.
Ö.	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.
		N/A
		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.	Dis	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
	If y	ves, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. $\underline{\mathbf{A}}$
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		⊠ Yes □ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started 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.
		Attachment E1 - E3, Date Plant started accepting sludge: 10/01/1971, Estimate of monthly sludge acceptance: 52.33 MG/month, Estimate of the BOD5 concentration of the sludge: 190 mg/l, Design BOD5 concentration of the influent from the collection system: Min of 70 mg/l and a Max of 396 mg/l. No change since last permit
		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

accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD ₃ concentration of the septic waste, 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.
N/A
Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
 Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)
Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?
□ Yes ⊠ No
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.
N/A
Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)
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. <i>Wastewater treatment facilities</i> complete Table 1.0(2). <i>Water treatment facilities</i> discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. These tables are not applicable for a minor amendment without renewal. See the instructions for guidance.

If yes to any of the above, provide the date the plant started or is anticipated to start

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

Table1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	2.1	2.1	1	СР	10/08/24 @8:30 AM
Total Suspended Solids, mg/l	2.12	2.12	1	СР	10/08/24 @8:30 AM
Ammonia Nitrogen, mg/l	< 0.28	< 0.28	1	СР	10/08/24 @8:30 AM
Nitrate Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Sulfate, mg/l	103.34	103.34	1	СР	10/09/24 @8:30 AM
Chloride, mg/l	86.68	86.68	1	СР	10/09/24 @8:30 AM
Total Phosphorus, mg/l	5.75	5.75	1	СР	10/09/24 @8:30 AM
pH, standard units	7.04 @ 20.5 °C	7.04 @ 20.5 °C	1	G	10/08/24 @8:30 AM
Dissolved Oxygen*, mg/l	6.69	6.69	1	G	10/08/24 @8:30 AM
Chlorine Residual, mg/l	< 0.05	< 0.05	1	G	10/08/24 @8:30 AM
E.coli (CFU/100ml) freshwater	2.0	2.0	1	G / (MPN)	10/08/24 @8:30 AM
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	< 2.5	< 2.5	1	G	10/09/24 @8:30 AM
Alkalinity (CaCO ₃)*, mg/l	86	86	1	СР	10/08/24 @8:30 AM

^{*}TPDES permits only

Table1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A

[†]TLAP permits only

Pollutant	Average Conc.	Max Conc.	No. of Samples		Sample Date/Time
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Clifford Creeks

Facility Operator's License Classification and Level: Class A

Facility Operator's License Number: WW0051420

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- \boxtimes Design flow>= 1 MGD
- \boxtimes Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☑ Biosolids generator
- ☐ Biosolids end user land application (onsite)
- ⊠ Biosolids end user surface disposal (onsite)
- ☐ Biosolids end user incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☑ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)

□ Sludge Lagoon
 ☑ Temporary Storage (< 2 years)
 □ Long Term Storage (>= 2 years)
 ☑ Methane or Biogas Recovery
 ☑ Other Treatment Process: Anaerobic Digestion

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	On-Site Owner or Operator	Bulk		Class B: PSRP Anaerobic Digestion	Option 1: Volatile solids reduced by 38%
Other					Option 2: Lab demonstration of volatile solids reduction anaerobically
Other					Option 10. Incorporate within 6 hrs
					Option 11: Biosolids covered at end of each day

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Other: 1. Dedicated Land Disposal, 2. Monofil, 3. Monofil

D. Disposal site

Disposal site name: City of Dallas, Southside Wastewater Treatment Plant

TCEQ permit or registration number: WQoo1oo6ooo6

County where disposal site is located: Dallas

E. Transportation method

Method of transportation (truck, train, pipe, other): Biosolids Spreader/On-site disposal

Name of the hauler: N/A

	Hauler registration number: <u>N/A</u>								
	Sludge is tra	nspo	orted as a:						
	Liquid □		semi-liquid □	semi-solid [sol	id ⊠		
Se			mit Authorizat structions Page		wag	e Slu	dge I	Disposal	
A.	Beneficial us	se aı	uthorization						
	Does the exist beneficial us		g permit include aut	horization fo	r lan	d appli	cation	of sewage sludge for	
	□ Yes	\boxtimes	No						
	If yes , are yo beneficial us		equesting to continu	e this author	izati	on to la	ind ap	ply sewage sludge for	
	□ Yes		No						
			npleted Application 10451) attached to					l Use of Sewage Sludge e instructions for	
	□ Yes		No						
B.	Sludge proce	essir	ng authorization						
	Does the existorage or di			horization fo	r any	of the	follow	ving sludge processing,	
	Sludge Co	omp	osting			Yes	\boxtimes	No	
	Marketing	g an	d Distribution of slu	ıdge		Yes	\boxtimes	No	
	Sludge Su	ırfac	e Disposal or Sludg	e Monofill	\boxtimes	Yes		No	
	Tempora	ry st	orage in sludge lage	oons		Yes	\boxtimes	No	
	authorization Technical Re	n, is e por	the completed Don t (TCEQ Form No. 1	iestic Wastev	vate	Permi	t App	esting to continue this lication: Sewage Sludge application?	
	⊠ Yes		No						
Se	ction 11.	Sev	vage Sludge La	goons (Ins	tru	ctions	Page	e 53)	
Do	es this facility	y inc	clude sewage sludge	lagoons?					
	□ Yes ⊠	No	0						
If y	es, complete	the	remainder of this se	ection. If no, j	proc	eed to S	Section	12.	
A.	Location info	orm	ation						
			aps are required to l chment Number.	be submitted	as p	art of t	he app	olication. For each map,	

• Original General Highway (County) Map:

 $\textbf{Attachment:}\ \underline{G}$

• USDA Natural Resources Conservation Service Soil Map:

Attachment: H

Federal Emergency Management Map:

Attachment: I

• Site map:

Attachment: D

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
- ⊠ None of the above

Attachment: N/A

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:

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: N/A

Total Kjeldahl Nitrogen, mg/kg: <u>N/A</u>

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A Molybdenum: N/A Nickel: N/A Selenium: N/A Zinc: N/A Total PCBs: N/A Provide the following information: Volume and frequency of sludge to the lagoon(s): N/A Total dry tons stored in the lagoons(s) per 365-day period: N/A Total dry tons stored in the lagoons(s) over the life of the unit: N/AC. Liner information Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1x10⁻⁷ cm/sec? Yes 🛛 No If yes, describe the liner below. Please note that a liner is required. N/A

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

N/A		
I NI / A		
I IV/A		
- ·/		
!		
I and the second		

Attach the following documents to the application.

Plan view and cross-section of the sludge lagoon(s)

Attachment: N/A

Copy of the closure plan

Attachment: N/A

Copy of deed recordation for the site

Attachment: N/A

Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

Attachment: N/A

	 Description of the method of controlling infiltration of groundwater and surface water from entering the site 	
	Attachment: N/A	
	 Procedures to prevent the occurrence of nuisance conditions 	
	Attachment: N/A	
E.	roundwater monitoring	
	groundwater monitoring currently conducted at this site, or are any wells available for roundwater monitoring, or are groundwater monitoring data otherwise available for the udge lagoon(s)?	
	⊠ Yes □ No	
	groundwater monitoring data are available, provide a copy. Provide a profile of soil pees encountered down to the groundwater table and the depth to the shallowest roundwater as a separate attachment.	
	Attachment: <u>J1, J2</u>	
Se	tion 12. Authorizations/Compliance/Enforcement (Instructions Page 55)	
A.	dditional authorizations	
	oes the permittee have additional authorizations for this facility, such as reuse	
	uthorization, sludge permit, etc?	
	⊠ Yes □ No	
	yes, provide the TCEQ authorization number and description of the authorization:	
R	laimed Water Use Authorization R10060006	
В.	ermittee enforcement status	
	s the permittee currently under enforcement for this facility?	
	□ Yes ⊠ No	
	s the permittee required to meet an implementation schedule for compliance or nforcement?	
	□ Yes ⊠ No	
	f yes to either question, provide a brief summary of the enforcement, the implementation chedule, and the current status:	n

N/A		

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

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

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: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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
 - o 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
 - o 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 Testina Laboratory Accreditation and Certification.

Printed Name: Zachary Peoples

Title: Deputy Director-Wastewater and Stormwater Programs

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)
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 no , proceed it Section 2. If yes , provide the following:
Owner of the drinking water supply: N/A
Distance and direction to the intake: N/A
Attach a USGS map that identifies the location of the intake.
Attachment: N/A
Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)
Does the facility discharge into tidally affected waters?
□ Yes ⊠ No
If no , proceed to Section 3. If yes , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: 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).
N <u>/A</u>
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?

If yes, provide the distance and direction from the outfall(s).

Yes 🖾

N/A

No

Section 3. Classified Segments (Instructions Page 64) 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. **Description of Immediate Receiving Waters (Instructions** Section 4. Page 65) Name of the immediate receiving waters: N/A A. Receiving water type Identify the appropriate description of the receiving waters. Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: N/A Average depth of the entire water body, in feet: N/A Average depth of water body within a 500-foot radius of discharge point, in feet: N/AMan-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: N/A B. Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream 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 Check the method used to characterize the area upstream (or downstream for new dischargers). USGS flow records Historical observation by adjacent landowners Personal observation Other, specify: N/A

downstream of the discharge point.	
N/A	
Downstream characteristics	
Do the receiving water characteristics charge (e.g., natural or man-made date	hange within three miles downstream of the ms, ponds, reservoirs, etc.)?
□ Yes □ No	
If yes, discuss how.	
N/A	
Normal dry weather characteristics	
•	er body during normal dry weather condition
	, , , ,
Date and time of observation: N/A	
	nwater runoff during observations?
	8
□ Yes □ No	
□ Yes □ No	
	ics of the Waterbody (Instructions
ction 5. General Characterist Page 66)	ics of the Waterbody (Instructions
ction 5. General Characterist Page 66) Upstream influences	am of the discharge or proposed discharge si
Ction 5. General Characterist Page 66) Upstream influences Is the immediate receiving water upstream	am of the discharge or proposed discharge si
Ction 5. General Characterist Page 66) Upstream influences Is the immediate receiving water upstreaminfluenced by any of the following? Cher	am of the discharge or proposed discharge sinck all that apply.
	Downstream characteristics Do the receiving water characteristics of discharge (e.g., natural or man-made da Yes No If yes, discuss how. N/A Normal dry weather characteristics

C. Downstream perennial confluences

B.	Waterb	oody uses		
	Observ	ed or evidences of the following use	es. Cl	heck all that apply.
		Livestock watering		Contact recreation
		Irrigation withdrawal		Non-contact recreation
		Fishing		Navigation
		Domestic water supply		Industrial water supply
		Park activities		Other(s), specify: Click to enter text.
C.	Waterb	oody aesthetics		
		one of the following that best descr rounding area.	ibes	the aesthetics of the receiving water and
		Wilderness: outstanding natural be clarity exceptional	auty	; usually wooded or unpastured area; water
		Natural Area: trees and/or native v fields, pastures, dwellings); water		ation; some development evident (from ty discolored
		Common Setting: not offensive; de or turbid	velop	ped but uncluttered; water may be colored
		Offensive: stream does not enhance dumping areas; water discolored	e aes	sthetics; cluttered; highly developed;

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS 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 minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab □ Composite ⊠ Attachment K

Date and time sample(s) collected: <u>10/18/23</u>, <u>11/8/23</u>, <u>2/21/24</u>, <u>4/17/24</u>, <u>6/5/24</u>, and <u>7/31/24</u>. <u>Time: 2:00 p.m. to 8:00 a.m.</u>

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile	< 3.90	<7.8	2	50
Aldrin	< 0.000565	< 0.00113	2	0.01
Aluminum	12.28	19.4	3	2.5
Anthracene	< 0.75	< 1.50	2	10
Antimony	< 1.83	7.83	6	5
Arsenic	.341	1.13	2	0.5
Barium	.289	9.78	2	3
Benzene	< 0.248	< 0.496	2	10
Benzidine	< 6.2	< 20	2	50
Benzo(a)anthracene	< 0.0865	< 0.173	2	5
Benzo(a)pyrene	< 0.182	< 0.364	2	5
Bis(2-chloroethyl)ether	< 1.08	< 2.16	2	10
Bis(2-ethylhexyl)phthalate	< 0.3898	0.641	2	10
Bromodichloromethane	5.15	11.8	2	10
Bromoform	7.45	14.9	2	10
Cadmium	< 0.129	< 0.258	6	1
Carbon Tetrachloride	< 0.63	< 1.26	2	2
Carbaryl	< 0.0925	< 0.185	2	5
Chlordane*	< 0.0515	< 0.103	2	0.2
Chlorobenzene	< 0.4725	< 0.945	2	10

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Chlorodibromomethane	5.735	18.6	2	10
Chloroform	10.1525	33.5	2	10
Chlorpyrifos	< 0.025	< 0.050	2	0.05
Chromium (Total)	< 0.7475	1.7	6	3
Chromium (Tri) (*1)	< 0.56125	1.7	6	N/A
Chromium (Hex)	< 2.13	5.8	6	3
Copper	5.188	9.76	6	2
Chrysene	< 0.111	< 0.222	2	5
p-Chloro-m-Cresol	< 0.785	< 1.57	2	10
4,6-Dinitro-o-Cresol	< 0.72	< 1.44	2	50
p-Cresol	< 0.785	< 1.57	2	10
Cyanide (*2)	< 1.712	2.86	6	10
4,4'- DDD	< 0.000407	< 0.000814	2	0.1
4,4'- DDE	< 0.000545	< 0.00109	2	0.1
4,4'- DDT	< 0.001895	< 0.0379	2	0.02
2,4-D	0.0545	0.109	2	0.7
Demeton (O and S)	< 0.02575	< 0.0515	2	0.20
Diazinon	< 0.02575	< 0.0515	2	0.5/0.1
1,2-Dibromoethane	< 0.3155	< 0.631	2	10
m-Dichlorobenzene	< 0.72	< 1.44	2	10
o-Dichlorobenzene	< 0.81	< 1.62	2	10
p-Dichlorobenzene	< 0.775	< 1.55	2	10
3,3'-Dichlorobenzidine	< 0.1705	< 0.341	2	5
1,2-Dichloroethane	< 0.765	< 1.53	2	10
1,1-Dichloroethylene	< 0.2875	< 0.575	2	10
Dichloromethane	< 0.4145	< 0.829	2	20
1,2-Dichloropropane	< 0.775	< 1.55	2	10
1,3-Dichloropropene	< 0.975	< 1.95	2	10
Dicofol	< 0.000025	< 0.00005	2	1
Dieldrin	< 0.0004765	< 0.000953	2	0.02
2,4-Dimethylphenol	< 0.3245	< 0.649	2	10
Di-n-Butyl Phthalate	< 0.3105	0.495	2	10
Diuron	< 0.00257	< 0.00514	2	0.09

	Effluent Conc. (µg/l)	Effluent Conc. (µg/l)	Samples	MAL (μg/l)
Endosulfan I (alpha)	< 0.000535	< 0.00107	2	0.01
Endosulfan II (beta)	< 0.00061	< 0.00122	2	0.02
Endosulfan Sulfate	< 0.00056	< 0.00112	2	0.1
Endrin	< 0.00078	< 0.00156	2	0.02
Ethylbenzene	< 0.439	< 0.878	2	10
Fluoride	2340	2360	2	500
Guthion	< 0.02575	< 0.02615	2	0.1
Heptachlor	< 0.00223	< 0.00446	2	0.01
Heptachlor Epoxide	< 0.00067	< 0.00134	2	0.01
Hexachlorobenzene	< 0.1535	< 0.307	2	5
Hexachlorobutadiene	< 0.3095	< 1.00	2	10
Hexachlorocyclohexane (alpha)	< 0.00071	< 0.00142	2	0.05
Hexachlorocyclohexane (beta)	< 0.001945	< 0.00389	2	0.05
gamma-Hexachlorocyclohexane (Lindane)	< 0.001495	< 0.00299	2	0.5
Hexachlorocyclopentadiene	< 3.645	< 10.0	2	10
Hexachloroethane	< 0.263	< 0.526	2	20
Hexachlorophene	<5.0	< 10.0	2	10
Lead	< 0.0827	0.146	6	0.5
Malathion	< 0.02575	< 0.02615	2	0.1
Mercury	0.00146	0.00223	24	0.005
Methoxychlor	< 0.00195	< 0.00390	2	2
Methyl Ethyl Ketone	< 2.265	< 4.53	2	50
Mirex	< 0.01	< 0.02	2	0.02
Nickel	5.09	5.76	6	2
Nitrate-Nitrogen	15950	16400	2	100
Nitrobenzene	< 0.83	< 1.66	2	10
N-Nitrosodiethylamine	< 0.875	< 1.75	2	20
N-Nitroso-di-n-Butylamine	< 0.745	< 1.49	2	20
Nonylphenol	< 5.0	< 10.0	2	333
Parathion (ethyl)	< 0.02575	< 0.02615	2	0.1
Pentachlorobenzene	< 0.535	<1.07	2	20
Pentachlorophenol	< 0.117	< 0.234	2	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Phenanthrene	< 0.71	< 1.42	2	10
Polychlorinated Biphenyls (PCB's) (*3)	< 0.05	< 0.100	2	0.2
Pyridine	< 3.16	< 5.0	2	20
Selenium	< 1.021	2.06	6	5
Silver	< 0.059	< 0.118	6	0.5
1,2,4,5-Tetrachlorobenzene	< 0.66	< 1.32	2	20
1,1,2,2-Tetrachloroethane	< 0.855	< 1.71	2	10
Tetrachloroethylene	< 0.45	< 0.900	2	10
Thallium	< 0.1075	< 0.215	6	0.5
Toluene	< 0.805	< 1.61	2	10
Toxaphene	< 0.03845	< 0.0769	2	0.3
2,4,5-TP (Silvex)	< 0.0206	< 0.0212	2	0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane	< 0.725	< 1.45	2	10
1,1,2-Trichloroethane	< 0.3735	< 0.747	2	10
Trichloroethylene	< 0.845	< 1.69	2	10
2,4,5-Trichlorophenol	< 1.00	< 2.00	2	50
TTHM (Total Trihalomethanes)	24.75	24.8	2	10
Vinyl Chloride	< 0.296	< 0.592	2	10
Zinc	10.8	14.6	6	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: Click to enter text.

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	< 1.83	7.83	6	5
Arsenic	1.05	1.2	6	0.5
Beryllium	< 0.1125	0.305	6	0.5
Cadmium	< 0.129	< 0.258	6	1
Chromium (Total)	< 0.7475	1.7	6	3
Chromium (Hex)	< 2.13	5.8	6	3
Chromium (Tri) (*1)	< 0.56125	1.7	6	N/A
Copper	5.188	9.76	6	2
Lead	< 0.0827	0.146	6	0.5
Mercury	0.00146	0.00223	24	0.005
Nickel	5.09	5.76	6	2
Selenium	< 1.021	2.06	6	5
Silver	< 0.059	< 0.118	6	0.5
Thallium	< 0.1075	< 0.215	6	0.5
Zinc	10.8	14.6	6	5
Cyanide (*2)	< 1.712	2.86	6	10
Phenols, Total	< 2.9	< 5.8	6	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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	< 11.55	< 23.1	2	50
Acrylonitrile	< 3.90	< 7.80	2	50
Benzene	< 0.248	< 0.496	2	10
Bromoform	7.45	14.9	2	10
Carbon Tetrachloride	< 0.63	< 1.26	2	2
Chlorobenzene	< 0.4725	< 0.945	2	10
Chlorodibromomethane	5.735	18.6	2	10
Chloroethane	< 0.725	< 1.45	2	50
2-Chloroethylvinyl Ether	< 0.6	< 1.20	2	10
Chloroform	10.1525	33.5	2	10
Dichlorobromomethane [Bromodichloromethane]	5.15	11.8	2	10
1,1-Dichloroethane	< 0.515	< 1.03	2	10
1,2-Dichloroethane	< 0.765	< 1.53	2	10
1,1-Dichloroethylene	< 0.2875	< 0.575	2	10
1,2-Dichloropropane	< 0.775	< 1.55	2	10
1,3-Dichloropropylene [1,3-Dichloropropene]	< 0.975	< 1 .95	2	10
1,2-Trans-Dichloroethylene	< 0.4515	< 0.903	2	10
Ethylbenzene	< 0.439	< 0.878	2	10
Methyl Bromide	< 0.94	< 1.88	2	50
Methyl Chloride	< 0.4705	< 0.941	2	50
Methylene Chloride	< 0.4145	< 0.829	2	20
1,1,2,2-Tetrachloroethane	< 0.855	< 1.71	2	10
Tetrachloroethylene	< 0.45	< 0.900	2	10
Toluene	< 0.805	< 1.61	2	10
1,1,1-Trichloroethane	< 0.725	< 1.45	2	10
1,1,2-Trichloroethane	< 0.3735	< 0.747	2	10
Trichloroethylene	< 0.845	< 1.69	2	10
Vinyl Chloride	< 0.296	< 0.529	2	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	< 0.3245	< 0.649	2	10
2,4-Dichlorophenol	< 0.157	< 0.314	2	10
2,4-Dimethylphenol	< 0.3245	< 0.649	2	10
4,6-Dinitro-o-Cresol	< 0.72	< 1.44	2	50
2,4-Dinitrophenol	< 0.805	< 1.61	2	50
2-Nitrophenol	< 0.835	< 1.67	2	20
4-Nitrophenol	< 3.0275	< 7.2	2	50
P-Chloro-m-Cresol	< 0.785	< 1.57	2	10
Pentalchlorophenol	< 0.117	< 0.234	2	5
Phenol	< 0.2115	< 0.423	2	10
2,4,6-Trichlorophenol	< 0.71	< 1.42	2	10

Table 4.0(2)D - Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acenaphthene	< 0.695	< 1.39	2	10
Acenaphthylene	< 0.705	< 1.41	2	10
Anthracene	< 0.75	< 1.50	2	10
Benzidine	< 6.2	< 20	2	50
Benzo(a)Anthracene	< 0.0865	< 0.173	2	5
Benzo(a)Pyrene	< 0.182	< 0.364	2	5
3,4-Benzofluoranthene	< 1.02	< 2.04	2	10
Benzo(ghi)Perylene	< 1.34	< 2.68	2	20
Benzo(k)Fluoranthene	< 1.344	< 5.00	2	5
Bis(2-Chloroethoxy)Methane	< 0.88	< 1.76	2	10
Bis(2-Chloroethyl)Ether	< 1.08	< 2.16	2	10
Bis(2-Chloroisopropyl)Ether	< 0.895	< 1.79	2	10
Bis(2-Ethylhexyl)Phthalate	< 0.3898	0.641	2	10
4-Bromophenyl Phenyl Ether	< 0.128	< 0.256	2	10
Butyl benzyl Phthalate	< 0.1685	< 0.337	2	10
2-Chloronaphthalene	< 0.462	< 0.462	2	10
4-Chlorophenyl phenyl ether	< 0.64	< 1.28	2	10
Chrysene	< 0.111	< 0.222	2	5
Dibenzo(a,h)Anthracene	< 0.0865	< 0.173	2	5
1,2-(o)Dichlorobenzene	< 0.81	< 1.62	2	10
1,3-(m)Dichlorobenzene	< 0.72	< 1.44	2	10
1,4-(p)Dichlorobenzene	< 0.775	< 1.55	2	10
3,3-Dichlorobenzidine	< 0.1705	< 0.341	2	5
Diethyl Phthalate	< 0.795	< 1.59	2	10
Dimethyl Phthalate	< 0.6998	< 2.50	2	10
Di-n-Butyl Phthalate	< 0.3105	0.495	2	10
2,4-Dinitrotoluene	< 0.655	< 1.31	2	10
2,6-Dinitrotoluene	< 0.0805	< 1.61	2	10
Di-n-Octyl Phthalate	< 0.1865	<0.373	2	10
1,2-Diphenylhydrazine (as Azobenzene)	< 0.745	< 1.49	2	20
Fluoranthene	< 0.795	< 1.59	2	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Fluorene	< 0.815	< 1.63	2	10
Hexachlorobenzene	< 0.1535	< 0.307	2	5
Hexachlorobutadiene	< 0.3095	< 1.00	2	10
Hexachlorocyclo-pentadiene	< 3.645	< 10.0	2	10
Hexachloroethane	< 0.263	< 0.526	2	20
Indeno(1,2,3-cd)pyrene	< 1.145	< 2.29	2	5
Isophorone	< 0.82	< 1.64	2	10
Naphthalene	< 0.7605	< 2.50	2	10
Nitrobenzene	< 0.83	< 1.66	2	10
N-Nitrosodimethylamine	< 1.01	< 2.02	2	50
N-Nitrosodi-n-Propylamine	< 1.44	< 2.88	2	20
N-Nitrosodiphenylamine	< 0.905	< 1.81	2	20
Phenanthrene	< 0.71	< 1.42	2	10
Pyrene	< 0.089	< 0.178	2	10
1,2,4-Trichlorobenzene	< 0.55075	< 1.61	2	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL. (µg/l)
Aldrin	< 0.000565	< 0.00113	2	0.01
alpha-BHC (Hexachlorocyclohexane)	< 0.00071	< 0.00142	2	0.05
beta-BHC (Hexachlorocyclohexane)	< 0.001945	< 0.00389	2	0.05
gamma-BHC (Hexachlorocyclohexane)	< 0.001495	< 0.00299	2	0.05
delta-BHC (Hexachlorocyclohexane)	< 0.001225	< 0.00245	2	0.05
Chlordane	< 0.0515	< 0.103	2	0.2
4,4-DDT	< 0.001895	< 0.0379	2	0.02
4,4-DDE	< 0.000545	< 0.00109	2	0.1
4,4,-DDD	< 0.000407	< 0.000814	2	0.1
Dieldrin	< 0.0004765	< 0.000953	2	0.02
Endosulfan I (alpha)	< 0.000535	< 0.00107	2	0.01
Endosulfan II (beta)	< 0.00061	< 0.00122	2	0.02
Endosulfan Sulfate	< 0.00056	< 0.00112	2	0.1
Endrin	< 0.00078	< 0.00156	2	0.02
Endrin Aldehyde	< 0.00059	< 0.00118	2	0.1
Heptachlor	< 0.00223	< 0.00446	2	0.01
Heptachlor Epoxide	< 0.00067	< 0.0134	2	0.01
PCB-1242	< 0.00625	< 0.0125	2	0.2
PCB-1254	< 0.0039	< 0.0078	2	0.2
PCB-1221	< 0.00625	< 0.0125	2	0.2
PCB-1232	< 0.00625	< 0.0125	2	0.2
PCB-1248	< 0.00625	< 0.0125	2	0.2
PCB-1260	< 0.0039	< 0.0078	2	0.2
PCB-1016	< 0.00625	< 0.0125	2	0.2
Toxaphene	< 0.03845	< 0.0769	2	0.3

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

Section 3. Dioxin/Furan Compounds

A.

B.

□ 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. Screening data returned nondetect (ND) results. None apply. 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. N/A		ate which of the following compounds from may be present in the influent from a ibuting industrial user or significant industrial user. Check all that apply.
□ 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. Screening data returned nondetect (ND) results. None apply. 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.		2,4,5-trichlorophenoxy acetic 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. Screening data returned nondetect (ND) results. None apply. 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.		Common Name 2,4,5-T, CASRN 93-76-5
□ 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. Screening data returned nondetect (ND) results. None apply. 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.		2-(2,4,5-trichlorophenoxy) propanoic acid
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. Screening data returned nondetect (ND) results. None apply. 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.		Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
□ 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. Screening data returned nondetect (ND) results. None apply. 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.		2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
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. Screening data returned nondetect (ND) results. None apply. 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.		Common Name Erbon, CASRN 136-25-4
□ 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. Screening data returned nondetect (ND) results. None apply. 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.		0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
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. Screening data returned nondetect (ND) results. None apply. 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.		Common Name Ronnel, CASRN 299-84-3
 □ 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. Screening data returned nondetect (ND) results. None apply. □ 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. 		2,4,5-trichlorophenol
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. Screening data returned nondetect (ND) results. None apply. 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.		Common Name TCP, CASRN 95-95-4
For each compound identified, provide a brief description of the conditions of its/their presence at the facility. Screening data returned nondetect (ND) results. None apply. 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.		hexachlorophene
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.		Common Name HCP, CASRN 70-30-4
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.		
 (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. 	Scree	ening data returned nondetect (ND) results. None apply.
 (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. 		
 (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. 		
 (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. 		
If yes , provide a brief description of the conditions for its presence.		
		Yes □ No
N/A	If yes	s, provide a brief description of the conditions for its presence.
	N/A	

C. 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: N/A

Table 4.0(2)F - Dioxin/Furan Compounds

Compound	Toxic Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDD	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDDs	0.1	N/A	N/A	N/A	N/A	50
1,2,3,4,6,7,8 HpCDD	0.01	N/A	N/A	N/A	N/A	50
2,3,7,8 TCDF	0.1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDF	0.05	N/A	N/A	N/A	N/A	50
2,3,4,7,8 PeCDF	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDFs	0.1	N/A	N/A	N/A	N/A	50
2,3,4,7,8 HpCDFs	0.01	N/A	N/A	N/A	N/A	50
OCDD	0.0003	N/A	N/A	N/A	N/A	100
OCDF	0.0003	N/A	N/A	N/A	N/A	100
PCB 77	0.0001	N/A	N/A	N/A	N/A	0.5
PCB 81	0.0003	N/A	N/A	N/A	N/A	0.5
PCB 126	0.1	N/A	N/A	N/A	N/A	0.5
PCB 169	0.03	N/A	N/A	N/A	N/A	0.5
Total		N/A	N/A	N/A	N/A	

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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: <u>42, Attachment L</u> 48-hour Acute: <u>22, Attachment L</u>

Section 2. Toxicity Reduction Evaluations (TREs)	
Has this facility completed a TRE in the past four and a half years? performing a TRE?	Or is the facility currently
□ Yes ⊠ No	
If yes, describe the progress to date, if applicable, in identifying and	d confirming the toxicant.
N/A	

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 M			
-			

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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: 17

Average Daily Flows, in MGD: 2.44

Significant IUs - non-categorical:

Number of IUs: 16

Average Daily Flows, in MGD: .65

Other IUs:

Number of IUs: 6

Average Daily Flows, in MGD: .22

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.

N/A			

C.	Treatment plant pass through
	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Ycs ⊠ 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.
Se	ction 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)
A	Substantial modifications
A.	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

	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.				
	TRA changes – upo	lated plant limits, Gar he Garland WWTP	land changes – dis	covery of industries	within Dallas City
L					
	-	ers above the MAL			
		t all parameters mea the last three years			
		ters Above the MAL			,-
	lutant	Concentration	MAL	Units	Date
	achment N				
				-	
D I	ndustrial user int	terruntions	1		
		or other IU caused o	r contributed to a	any problems (exc	luding
	-	ass throughs) at you		_	
	□ Yes ⊠	No			
		industry, describe and probable polluta		luding dates, dura	tion, description
	N/A				

B. Non-substantial modifications

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

	Company Name: N/A
	SIC Code: N/A
	Contact name: N/A
	Address: <u>N/A</u>
	City, State, and Zip Code: N/A
	Telephone number: <u>N/A</u>
	Email address: <u>N/A</u>
В.	Process information
	Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).
	N/A
C.	Product and service information
	Provide a description of the principal product(s) or services performed.
	N/A
D.	Flow rate information
	See the Instructions for definitions of "process" and "non-process wastewater."
	Process Wastewater:
	Discharge, in gallons/day: Click to enter text.
	Discharge Type: □ Continuous □ Batch □ Intermittent
	Non-Process Wastewater:
	Discharge, in gallons/day: Click to enter text.
	Diocina ge, in guiloito, au, chek to check to check
	Discharge Type: □ Continuous □ Batch □ Intermittent

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the instructions?
	□ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471?
	□ Yes □ No
	If subject to categorical pretreatment standards , indicate the applicable category and subcategory for each categorical process.
	Category: Subcategories: <u>N/A</u>
	Click or tap here to enter text. N/A
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
	Category: <u>N/A</u>
	Subcategories: <u>N/A</u>
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.
	N/A

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

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

SECTION 1. TREATMENT PROCESSING INFORMATION

- **A.** Attach the engineering report and/or plans and specifications for the proposed facility which must include the following:
 - Description of the type of process facility
 - Process flow diagram
 - Design calculations, features, and functional arrangements
 - Site controls
 - Groundwater protection
 - Odor, dust, and bio-aerosol management
 - Ultimate product

Attachment Number: O

).	Is the facility located plain? Yes ⊠	d or proposed to be located above the 100-year frequency No \square	flood
		rate site map indicating the location of the sludge units ward and a detailed description of the type and s	
	N/A		

SECTION 2. SOURCES OF SLUDGE

A. Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the quantity for each source.

Facility Name	Permit	Annual Quantity
	Number	
Southside Wastewater Treatment Plant	WQ0010060-006	1.0 MGD
Central Wastewater Treatment Plant	WQ0010060-001	1.5 MGD

Facility Name	Permit	Annual Quantity
	Number	

B. For each source of sludge, complete Table 1 located at the end of this form.

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

- **A.** For each source of sludge, complete Tables 2 and 3 located at the end of this form.
- **B.** Indicate by a checkmark that all of the following are being followed for Class B land application.

 - □ Animal grazing restrictions
 - □ Public access restrictions

SECTION 4. WELL INFORMATION

In the table below, provide information about each well located on-site and within 500 feet of the processing, application, and/or disposal area. Water well information is available from the Texas Water Development Board, 512-936-0837. Oil and gas well information is available from the Texas Railroad Commission, 512-463-6851.

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
See Attachment P1 and P2			

^{*} Casing, capping, and plugging rules are located in 16 TAC Chapter 76.

- If the well is producing and cased, no action is needed.
- If the well is producing and not cased, the well must be cased or describe other protective measures.
- If the well is non-producing and cased, the well must be plugged or capped.
- If the well is non-producing and not cased, the well must be plugged.

^{**} The following protective measures are required prior to initial sludge/septage application:

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Iden	tify which additional technical reports are submitted with this application.
	Technical Report 2.0, Sewage Sludge Composting
	Technical Report 3.0, Marketing and Distribution
\boxtimes	Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

I co-applicants are necessary, each co-applicant must submit an original, separate signature page.

Permit Number: WQ0010060-006

Applicant: City of Dallas

I understand that I am responsible for operating the site described in this permit application in accordance with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the Texas Commission on Environmental Quality.

I certify, under penalty of law, that all 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, imprisonment for violations, and revocation of this permit.

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: Zachary Peoples

Title: Deputy Director- Wastewater and Stormwater Programs

Signature (use blue ink):	- 2n	Date: <u>4/15/2</u>	.4
SUBSCRIBED AND SWORN to be	fore me by the said	achary Peoples	on
this 15 day of Nov	ember	, 20_24	
My commission expires on the	20 day of Sep	otember	,20 25
	Felie	er Sull	
(Seal)	/	Notary Public	
# : LLCIA SMITH-NIEMRITZ Hetary Public, State of Texas Notary ID#: 13335250-2	Dallas	\$	
re saion Expires 09-20-2025		County, Texas	

FELICIA SMITH-NIEMRITZ Notary Public, State of Texas Notary ID#: 13335250-2 My Commission Expires 09-20-2025

LANDOWNER SIGNATURE PAGE

Permit Number: N/A

lequired if the landowner is not the applicant or co-applicant. Each landowner must submit an original, separate signature page.

Applicant: <u>N/A</u>			
I certify, as the owner of the land describe rights and covenants to authorize the application of	licant to use (iden lires me to m rements in 30 ld any addition law, that all in turate, and con lse information	this site for the lar stify the type(s) of so ake a reasonable et to TAC Chapter 312 to TAC Chapter 31	and
Signatory Name: <u>N/A</u>			
Title: <u>N/A</u>			
Signature (use blue ink):		Date:	
SUBSCRIBED AND SWORN to before me	e by the said		on
thisday of		, 20	
My commission expires on the	day of		, 20
(Seal)		Notary Public	
	***	County, Texas	

DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT 4.0

SEWAGE SLUDGE SURFACE DISPOSAL

SECTION 1. LOCATION INFORMATION

- A. Attach the following maps. See instructions for information that must be displayed on each map.
 - Original General Highway (County) map;
 - USDA Natural Resources Conservation Service Soil Map;
 - Federal Emergency Management Agency Map; and
 - Site Map.

		Attachment Numbers: G, H, I, D
В.	Indicate	e by checkmarks if the disposal unit contains any of the following: Overlaps a designated 100-year frequency floodplain
		Soils with flooding classification
1		Wetlands
1		Located less than 60 meters from a fault
		Overlaps an unstable area
	\boxtimes	None of these
		ludge disposal unit contains any of the above features, provide a detailed tion of the type and size of protective measures.

SECTION 2. DISPOSAL INFORMATION

- A. What is the volume and frequency of sludge disposal? 65.82 dry tons/day (average), daily disposal
- **B.** What is the total dry tons placed on the disposal unit per 365-day period? 24,032 tons

C.	What is the total dry tons placed on the disposal unit over the life of the unit? 1,254,520 Dry tons, Attachment Q
D.	Attach a current TCLP test result from each sludge source. Attachment Number: \underline{R}
S	ECTION 3. FACILITY INFORMATION
A.	Does the disposal unit have a liner with a maximum hydraulic conductivity of 1X10 cm/sec? Yes \boxtimes No \square
	If yes, describe the liner.
	The Taylor Marl formation, a calcareous clay/shale formation, serves as the liner for the Southside Wase Water Treatment Plant (SWWTP) sludge disposal site. The Taylor Marl formation is estimated to be a minimum of 50 to 100 feet thick directly below the SWWTP sludge disposal site. The formation has a permeability of less than 1x10^-7 cm/sec, therefore the site meets the definition of a liner as outlined in paragraph 503.21 of the Federal Register.
В.	Does the disposal unit have a leachate collection system? Yes ⊠ No □
	If yes, describe the leachate collection system and the method used for leachate treatment and disposal.
C.	A gravel layer underlying the entire SWWTP disposal site acts as a leachate collection system. The gravel layer intersects the storage ponds on the site. The contents of the ponds are then pumped to the headworks for treatment. Additionally, the slurry wall around the monofil, and the slurry wall around the entire site are a minimum of 3 feet thick and are keyed five feet into the Taylor Marl formation which exceeds the Texas Department of Health (Technical Guide No.) requirements of having to be keyed a minimum of three feet. The slurry walls also have a permeability of less than 1x10^-7 cm/sec. If you answered No to A. and B., is the boundary of the disposal unit less than 150 meters from the nearest property boundary? Yes No No
	If you answered No to C., what is the actual distance to the nearest property boundary in meters?

D. Do the design calculations for the disposal unit show that stormwater will not run-

Yes □

Click here to enter text.

No 🗆

	off of the disposal unit during a 25-year, 24-hour rainfall event?
7	Yes ⊠ No □ Attachment S
E.	If sludge dewatering is used, describe the method of sludge dewatering and the average percent solids disposed of in the disposal unit.
	Belt filter presses are used to dewater sludge at SWWTP. The average percent of solids is 17%.
F.	Are crops grown or animals allowed to graze at the disposal site?
Г	Yes \square No \boxtimes If yes, provide a detailed description of management practices that protect human health from accumulation of metals in the sewage sludge.
	N/A
SE	CCTION 4. SITE DEVELOPMENT PLAN
A.	Provide a detailed description of the methods used to deposit sludge in the disposal unit. See Attachment T
	See Attachment 1
В.	Indicate by a checkmark that the following information is provided with this application.
)	□ Plan view and cross-sectional view of the disposal unit

	Source and physical properties of the soil and/or other media for sludge
	bulking
	□ Locations of stockpiles of media and the area for sludge loading and
	unloading
	Operation procedures detailing mixing, ratio of mixture, handling of
	mixture, placement of the mixture, and daily cover
	Copy of the closure plan and post-closure maintenance requirements
	developed in accordance with 30 TAC §312.62(c) and (d)
	Copy of deed record for the site
	Description of the method of controlling infiltration of groundwater and
	surface water from entering the site
	Financial assurances of proper operation and final closure of the disposal unit and storage in accordance with 30 TAC §312.62(g)
	Description of methane gas monitoring if cover is placed on the disposal
	unit
	Description of method to restrict public access to the site.
SE	CCTION 5. GROUNDWATER MONITORING
٨	Is groundwater monitoring currently conducted at this disposal unit, or is
A.	groundwater monitoring data otherwise available?
	Yes ⊠ No □
	If yes, attach a copy of available groundwater monitoring data.
	Attachment Number: J1, J2, P1
	Attachment Number. J1, J2, F1
B.	Has a groundwater monitoring program been prepared for this disposal unit? Yes
	⊠ No □
	If yes, attach a copy of the groundwater monitoring program.
	Attachment Number: <u>J1</u> , <u>J2</u> , <u>P1</u>
_	
C.	Provide a certification from a qualified groundwater scientist that the aquifer
	below the disposal unit will not be contaminated.
	Attachment Number: N/A - The groundwater monitoring program has been
	implemented. The liner serves to prevent contamination.
D.	Provide a profile of soil types encountered down to the groundwater table and the
	depth to the shallowest groundwater.
	Attachment Number: J2
	Attachment Number. 12

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION

TABLE OF ATTACHMENTS

<u>A</u>	ttachment	Description	Reference
	AR-1	Copy of Payment Voucher	Administrative Report 1.0 Section 1
	AR-2	Plain Language Summary	Administrative Report 1.0 Section 8
	AR-3	USGS Topographical Map – 3-mile	Administrative Report 1.0 Section 13
	AR-4	USGS Topographical Map – 1-mile	Administrative Report 1.0 Section 13
	SPIF-1	USGS Quadrangle Map – 7.5-minute	Administrative Report SPIF Item 5
	SPIF-2	General Location Map within County	Administrative Report SPIF Item 5
	SPIF-3	Service Area Map	Administrative Report SPIF Item 5
	CD-1	Permits, Registrations, or Other Auth.	TCEQ Core Data Form Item 39
	A.	Treatment Process Description	Tech Report 1.0 Section 2A
ì	B.	Treatment Units	Tech Report 1.0 Section 2B
,	C.	Process Flow Diagram	Tech Report 1.0 Section 2C
	D.	Site Drawing	Tech Report 1.0 Section 3
	E.	Sewage Sludge Solids Management Plan	Tech Report 1.0 Section 6G.1
	F.	Pollutant Analysis of Treated Effluent	Tech Report 1.0 Section 7
	G.	General Highway (County) Map	Tech Report 1.0 Section 11A
	H.	USDA Conservation Service Soil Map	Tech Report 1.0 Section 11A
	l.	Federal Emergency Management Plan	Tech Report 1.0 Section 11A
	J.	Groundwater Monitoring Data	Tech Report 1.0 Section 11E
	K.	Pollutant Analysis Requirements	Tech Report 1.0 Wkst. 4.0
	L.	Toxicity Testing Requirements	Tech Report 1.0 Wkst. 5.0 Section 1
	M.	Summary of WET Tests	Tech Report 1.0 Wkst. 5.0 Section 3
į.	N.	Effluent Parameters above the MAL	Tech Report 1.0 Wkst. 6.0 Section 2C
)	Ο.	Engineering Report	SS Tech Report 1.0 Section 1A
	P.	Ground Well Information	SS Tech Report 1.0 Section 4

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION

TABLE OF ATTACHMENTS (Continued)

Q.	SWWTP Total Sludge Disposal Graph	SS Tech Report 4.0 Section 20
R.	TCLP Results	SS Tech Report 4.0 Section 2D
S.	Drainage Design Calculations	SS Tech Report 4.0 Section 3D
Т.	Site Development Plan	SS Tech Report 4.0 Section 4A
U.	Pollutant Concentrations in Sewage Sludge	Appendix A

ATTACHMENT AR-2

Plain Language Summary

(Administrative Report 1.0 Section 8)

AR-2

City of Dallas

Southside Wastewater Treatment Plant TPDES Permit Application Plain Language Summary

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

City of Dallas (CN600331730) operates the Southside Wastewater Treatment Plant (RN100762590), which is a domestic wastewater treatment plant facility. The facility is located at 10011 Log Cabin Road, Dallas, Texas 75232.

This application is for a renewal to discharge 110,000,000 gallons (110 MGD) per day of treated wastewater and authorized discharge via main outfall.

The discharge of wastewater via main outfall from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 403. The pollutants expected from these discharges based on 40 CFR Part 403 are: **Attachment F**. Additional potential pollutants are included in the Domestic Wastewater Application Technical Report, Worksheet 4.0.

Domestic wastewater is routed to the Southside Wastewater Treatment Plant, TPDES Permit No. WQ0010060006, for treatment and disposal/discharge. The Liquids Treatment starts with fine screening to remove large items which could clog or damage treatment equipment. The screened wastewater flows are pumped, by six large-capacity centrifugal pumps, to the flow splitter. From the flow splitter, the wastewater flows through the plant (to downstream processes by gravity) and no additional pumping is required. Wastewater can be diverted to the emergency storage basins (two basins consisting of four cells) for storage of wastewater during rain event/peak flows. The stored wastewater is returned to the headworks for processing after the rain event. To further protect downstream equipment, grit removal units separate and remove grit. The grit is washed, concentrated, and diverted to a collection point. The grit is collected and hauled to a municipal landfill. The screened and degritted wastewater flows into primary clarifiers where most of the solids (over 80%) settle out under gravity. Settled solids are pumped to the Solids Treatment and the decant is conveyed into diffused aeration basins. Effluent from the primary clarifiers flow into the aeration basins where it is mixed with "activated" sludge recycled from final clarifiers. Air is pumped into the basin through submerged diffusers to provide oxygen and agitation to the microorganisms. Excess activated sludge is pumped to Solids Treatment and the decant is conveyed to the final clarifiers. Effluent from the aeration basins flows to the final clarifiers where most of the remaining suspended

solids settle out under gravity. Final clarifiers separate the activated solids from the water, producing clear and clean effluent. A portion of the settled activated sludge is recycled to the diffused aeration basins to provide 'active microorganisms" for the aeration process. The remaining activated sludge is sent to Solids Treatment. The final clarifier effluent is dosed with chlorine in the contact basin to kill the harmful bacteria (pathogens), thereby disinfecting the effluent. Effluent filters, comprised of 30 inches of anthracite, remove any remaining very small particles. The residual chlorine in the effluent is then neutralized by dosing the effluent with sulfur dioxide (dechlorinated) before the effluent flows to the Trinity River via main outfall.

The Solids Treatment starts with belt thickening with mixed sludge from the City of Dallas, Central Wastewater Treatment Plant along with primary sludge and waste activated sludge from the Southside Wastewater Treatment Plant that is then blended and thickened from about 1% solids to over 5% solids, using gravity belt thickeners. After thickening, the sludge is pumped to the digesters, where anaerobic bacteria break down the solids to methane, carbon dioxide, ash, and stabilized solids (Class B sludge). The digested sludge is pumped to the dewatering facility. All digested sludge from anaerobic digestion process is dewatered, using belt filter presses, to about 16% solids and a smaller volume of sludge to be disposed. The filtrate from dewatering, which is high in ammonia content, is pumped to sidestream treatment where it is dosed with lime and aerated to remove most of the ammonia before it is returned to the head of the plant for further treatment. All digested and dewatered sludge from dewatering is taken to the 1.100-acre on-site Dedicated Land Disposal (DLD) fields or the 200-acre sludge-only landfill (Monofil) for disposal. Biogas (cleaned of siloxanes and water) from the digesters is used to fuel three Internal Combustion Engines (ICE) each connected to an electricity generator. The electricity generated provides the plant with electricity to use.

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

La ciudad de Dallas (CN600331730) opera la Planta de Tratamiento de Aguas Residuales de Southside (RN100762590), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 10011 Log Cabin Road, Dallas, Texas 75232.

Esta solicitud es para una renovación para descargar 110,000,000 galones (MGD) por día de aguas residuales tratadas y descarga autorizada a través del desagüe principal.

La descarga de aguas residuales a través del desagüe principal de esta instalación está sujeta a las pautas federales de limitación de efluentes en 40 CFR Parte 403. Los contaminantes esperados de estas descargas según 40 CFR Parte 403 son: . Los contaminantes potenciales adicionales se incluyen en el Informe Técnico de Solicitud de Aguas Residuales Domésticas, Hoja de Trabajo 4.0.

Las aguas residuales domésticas se envían a la Planta de Tratamiento de Aguas Residuales de Southside, Permiso TPDES N.º WQ0010060006, para su tratamiento y eliminación/descarga.

El tratamiento de líquidos comienza con un tamizado fino para eliminar los elementos grandes que podrían obstruir o dañar el equipo de tratamiento. Los flujos de aguas residuales tamizadas se bombean, mediante seis bombas centrífugas de gran capacidad, al divisor de flujo. Desde el divisor de flujo, las aguas residuales fluyen a través de la planta (a los procesos posteriores por gravedad) y no se requiere bombeo adicional. Las aguas residuales se pueden desviar a los estanques de almacenamiento de emergencia (dos estanques que constan de cuatro celdas) para el almacenamiento de aguas residuales durante los eventos de lluvia/caudales pico. Las aguas residuales almacenadas se devuelven al divisor de flujo para su procesamiento después del evento de lluvia. Para proteger aún más el equipo aguas abajo, las unidades de eliminación de arena separan y eliminan la arena. La arena se lava, se concentra y se desvía a un punto de recolección. La arena se recoge y se transporta a un vertedero municipal. Las aguas residuales tamizadas y desarenadas fluyen a los clarificadores primarios donde la mayoría de los sólidos (más del 80%) se sedimentan por gravedad. Los sólidos sedimentados se bombean al tratamiento de sólidos y el decantado se transporta a los estangues de aireación difusa. El efluente de los clarificadores primarios fluye hacia los estanques de aireación donde se mezcla con lodos "activados" reciclados de los clarificadores finales. Se bombea aire hacia el estanque a través de difusores sumergidos para proporcionar oxígeno y agitación a los microorganismos. El exceso de lodos activados se bombea al tratamiento de sólidos y el decantado se transporta a los clarificadores finales. El efluente de los estanques de aireación fluye hacia los clarificadores finales donde la mayoría de los sólidos suspendidos restantes se sedimentan por gravedad. Los clarificadores finales separan los sólidos activados del agua, produciendo un efluente claro y limpio. Una parte del lodo activado sedimentado se recicla a los estangues de aireación difusa para proporcionar "microorganismos activos" para el proceso de aireación. El lodo activado

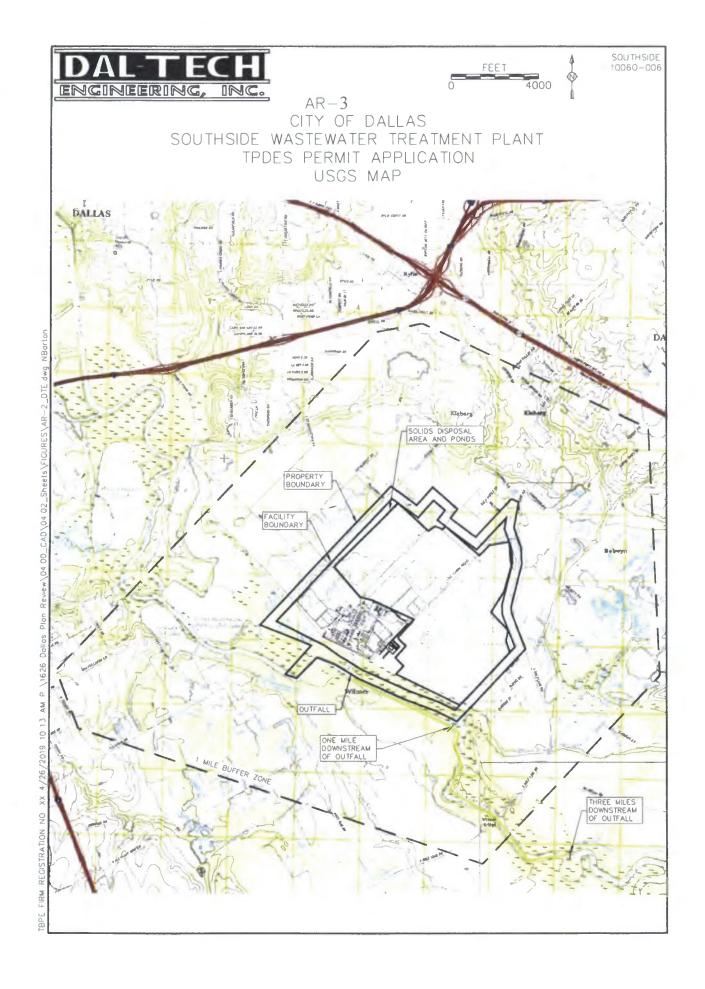
restante se envía al tratamiento de sólidos. El efluente del clarificador final se dosifica con cloro en el estanque de contacto para matar las bacterias dañinas (patógenos), desinfectando así el efluente. Los filtros de efluentes, compuestos de 30 pulgadas de antracita, eliminan las partículas muy pequeñas restantes. El cloro residual en el efluente se neutraliza luego dosificándolo con dióxido de azufre (desclorado) antes de que el efluente fluya hacia el río Trinity a través del desagüe principal.

El tratamiento de sólidos comienza con el espesamiento de la banda con lodos mixtos de la planta de tratamiento de aguas residuales central de la ciudad de Dallas junto con lodos primarios y lodos activados de la planta de tratamiento de aguas residuales de Southside que luego se mezclan y espesan desde aproximadamente 1% de sólidos a más de 5% de sólidos, utilizando espesadores de banda por gravedad. Después del espesamiento, el lodo se bombea a los digestores, donde las bacterias anaeróbicas descomponen los sólidos en metano, dióxido de carbono, cenizas y sólidos estabilizados (lodos de clase B). El lodo digerido se bombea a la instalación de deshidratación. Todo el lodo digerido del proceso de digestión anaeróbica se deshidrata, utilizando prensas de filtro de banda, hasta aproximadamente un 16% de sólidos y un volumen menor de lodo para eliminar. El filtrado de la deshidratación, que tiene un alto contenido de amoníaco, se bombea al tratamiento de corriente secundaria donde se dosifica con cal y se airea para eliminar la mayor parte del amoníaco antes de que se devuelva a la cabecera de la planta para un tratamiento posterior. Todo el lodo digerido y deshidratado de la deshidratación se lleva a los campos de eliminación en tierra dedicados (DLD) de 1100 acres en el sitio o al vertedero de lodos de 200 acres (Monofil) para su eliminación. El biogás (limpio de siloxanos y agua) de los digestores se utiliza para alimentar tres motores de combustión interna (ICE), cada uno conectado a un generador de electricidad. La electricidad generada proporciona a la planta la electricidad que necesita.

ATTACHMENT AR-3

USGS Topographical Map – 3 miles

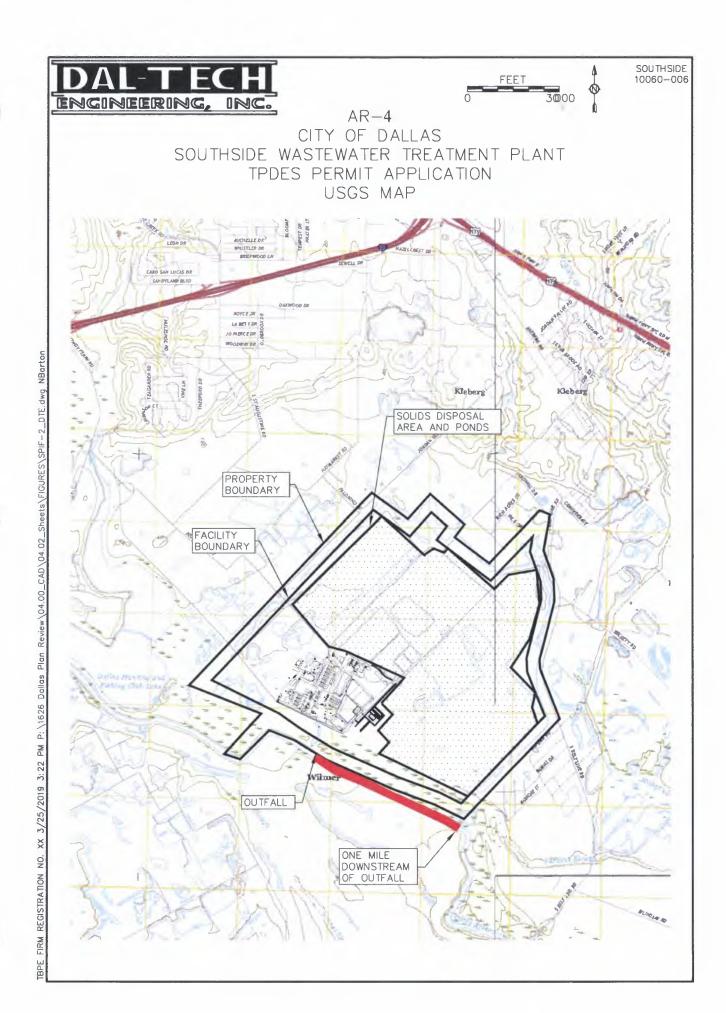
(Administrative Report 1.0 Section 13)



ATTACHMENT AR-4

USGS Topographical Map – 1 mile

(Administrative Report 1.0 Section 13)



ATTACHMENT SPIF-1

USGS Quadrangle Map – 7.5 minute

(Administrative Report SPIF Item 5)

ATTACHMENT SPIF-2

General Location Map within County

(Administrative Report SPIF Item 5)

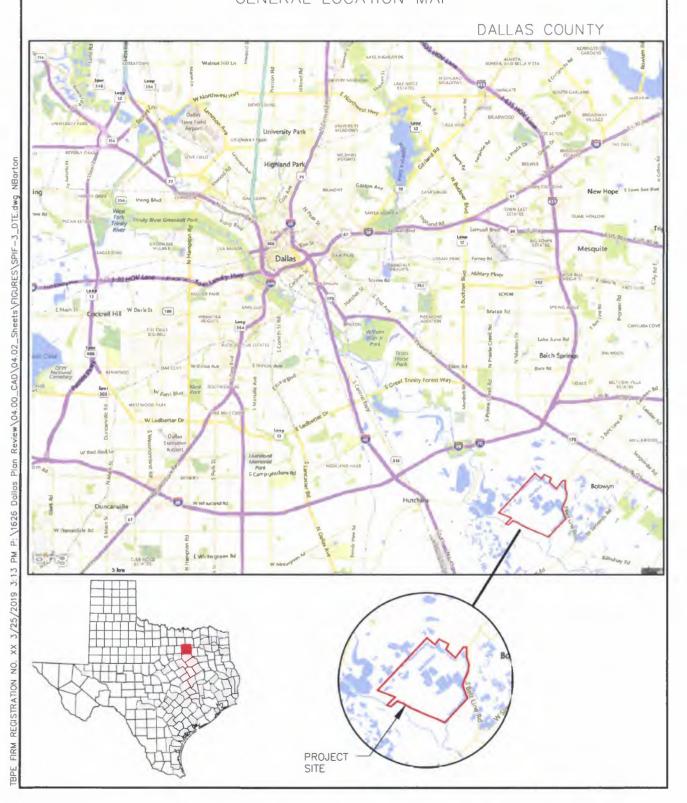




SOUTHSIDE 10060-006

SPIF - 2

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION GENERAL LOCATION MAP

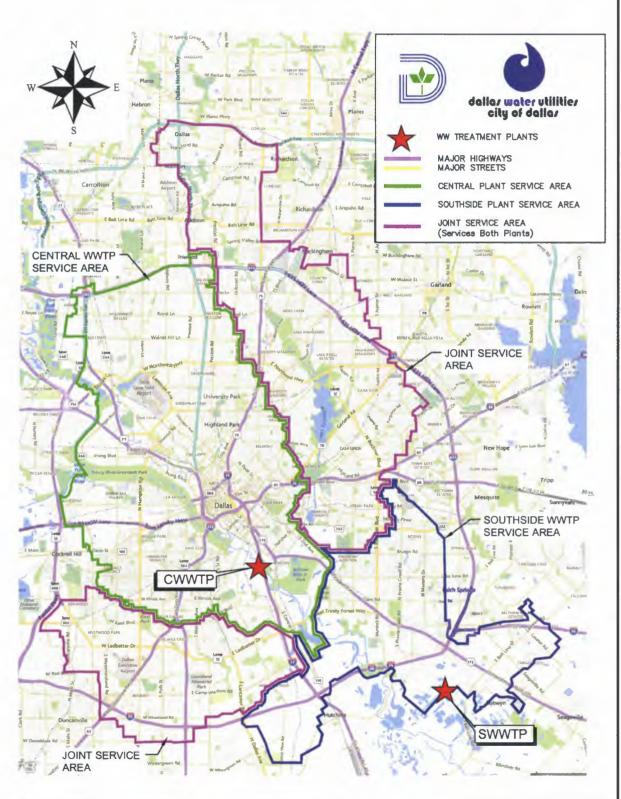


ATTACHMENT SPIF-3

Service Area Map

(Administrative Report SPIF Item 5)

SPIF-3 CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION SERVICE AREA



TBPE FIRM REGISTRATION NO. 13 3/25/2019 3:25 PM P:\1626 Dallas Plan Review\04.00_CAD\04.02_Sheets\FIGURES\SPIF-4_DTE.dwg NBarton

ATTACHMENT CD-1

Permits, Registrations, or Other Authorizations

(TCEQ Core Data Form Item 39)

Attachment CD-1

CITY OF DALLAS

SOUTHSIDE WASTEWATER TREATMENT PLANT

PERMITS, REGISTRATIONS, OR OTHER AUTHORIZATIONS

1-26 of 26 Records

Program	ID Type	ID Number	ID Status
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	DB2745W	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	79027	ACTIVE
AIR QUALITY NON PERMITTED	ID NUMBER	R04104773122	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	EPA ID	TXD980798409	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	EPA ID	TXP490351153	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	OTS REQUEST	36274	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	OTS REQUEST	37674	INACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	76869	INACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	5104	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	56194	INACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR15052M	CANCELLED
STORMWATER	PERMIT	TXR15076M	CANCELLED
STORMWATER	PERMIT	TXR15130Z	ACTIVE
STORMWATER	PERMIT	TXR1521DB	CANCELLED
STORMWATER	PERMIT	TXR156174	CANCELLED
STORMWATER	PERMIT	TXR15D934	CANCELLED
STORMWATER	PERMIT	TXR15G859	CANCELLED
STORMWATER	PERMIT	TXR15J594	CANCELLED
STORMWATER	PERMIT	TXR15K162	CANCELLED
STORMWATER	PERMIT	TXR15MB96	CANCELLED
STORMWATER	PERMIT	TXR15SE57	DENIED
TAX RELIEF	ID NUMBER	16079	ACTIVE
WASTEWATER	AUTHORIZATION	R10060006	ACTIVE
WASTEWATER	EPA ID	TX0047848	ACTIVE
WASTEWATER	PERMIT	WQ0010060006	ACTIVE

ATTACHMENT A

Treatment Process Description

(Tech Report 1.0 Section 2A)

ATTACHMENT A

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TREATMENT PROCESS DESCRIPTION

(Tech Report 1.0 Section 2A)

Raw wastewater is conveyed to the Southside Wastewater Treatment Plant (SWWTP) via various interceptors and passes through fine screens before the lift station into the plant. The lift station discharges the wastewater into a flow splitter structure from which it proceeds to one of the two grit removal facilities, the aerated grit removal channels or the Pista grit removal units.

From the grit removal facilities, the water flows by gravity through primary clarifiers, activated sludge basins, secondary clarifiers, chlorination basins, single media effluent filters and dechlorination.

Under normal river conditions, the treated effluent is discharged by gravity into the Trinity River via a re-aeration channel. Under flood conditions, the effluent is discharged to the Trinity River by means of Archimedes Screw and/or vertical turbine pumps.

The City of Dallas has consolidated solids treatment for solids generated at both the Central Wastewater Treatment Plant (CWWTP) and SWWTP. All solids processing and disposal is conducted at SWWTP.

Solids from the CWWTP are pumped through a 13-mile force main to the SWWTP. CWWTP solids have two options for treatment before final disposal. The first option includes routing the CWWTP solids to an aerated storage basin and then to a blend tank. The undigested solids are dewatered using a belt press and disposed in a 200-acre lined fill area at the SWWTP. The second treatment option for CWWTP solids is to thicken the sludge using gravity belt thickeners and stabilize the sludge in anaerobic digesters. From the digesters, the solids can be routed to, or bypass, an aerated storage basin and then go to a blend tank. From the blend tank, the digested solids are dewatered using belt presses and disposed on dedicated land disposal fields at the SWWTP.

SWWTP waste activated sludge is thickened by gravity belt thickeners, digested, stored, dewatered and disposed on dedicated land disposal fields. SWWTP primary sludge can be thickened, digested, stored, dewatered and disposed on dedicated land disposal fields or stored, dewatered and disposed in the 200-acre lined disposal area. When the dedicated land disposal fields and lined disposal area cannot be used due to wet weather conditions, sludge is stored in a 65 MG basin until solids processing and disposal can be resumed.

ATTACHMENT B

Treatment Units

(Tech Report 1.0 Section 2B)

ATTACHMENT B

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TREATMENT UNITS

(Form 10054, Page 2 of 80, Section 2B)

UNITS	DESCRIPTION
	(Number of Units)
FINE SCREENS	
Number of Units	6
Dimensions	6' x 51'
Comb Spacing (mm)	6
INFLUENT PUMPS	
Number of Units	6
Туре	Vertical Centrifugal
GRIT CHAMBERS	
Number of Units	7
Туре	Aerated (3) Pista (4)
Dimensions	50' x 23' (3) 18' Diameter (4)
SWD (ft)	15 (3) 8 (4)
Unit Volume (gallons)	130,000 (3) 15,200 (4)
Total Volume (gallons)	450,000
PRIMARY CLARIFIERS	
Number of Units	9
Dimensions	130' x 130'
Weir Length (ft²)	4,176
SWD (ft)	10 (3), 14 (6)
Total Surface Area (ft²)	152,100
Unit Volume (gallons)	1,264,000 (3) 1,770,000 (6)
Total Volume (gallons)	14,413,000
AERATION BASIN	
Number of Units	9
Dimensions	130' x 130'
SWD (ft)	18
Total Surface Area (ft²)	152,100
Unit Volume (gallons)	2,529,000
Total Volume (gallons)	22,757,000

Attachment B Continued - Page 2 of 3

Attachment B Continued – Page 2 of 3 UNITS	DESCRIPTION
UNITS	DESCRIPTION
AERATION EQUIPMENT	
Number of Units	Turblex (4)
Type	Blowers
Unit horsepower	1895 (4)
RETURN ACTIVATED SLUDGE PUMPS	
Number of Units	14
Туре	Horizontal (VSD)
SECONDARY CLARIFIERS	
Number of Units	9
Dimensions	130′ X 130′
Weir Length (ft²)	8,460
SWD (ft)	16
Total Surface Area (ft²)	152,000
Unit Volume (gallons)	2,023,000
Total Volume (gallons)	18,206,000
CHLORINE CONTACT BASINS	
Number of Units	5
Dimensions	87.5′ X 35.5′ (3)
Difficultions	622' X 14' (2)
SWD (ft)	14
Unit Volume (gallons)	329,000 (3)
	912,000 (2)
Total Volume (gallons)	2,812,000
EFFLUENT PUMPS	1 000
Number of Units	7
Туре	Vertical Turbine (3)
	Screw (4)
GRAVITY BELT THICKENERS	
Number of Units	6
Type	3-METER
Туре	J-WETER
ANAEROBIC SLUDGE DIGESTERS	
Number of Units	13
Diameter (ft)	65 (2), 90(11)
SWD (ft)	27.6 (2), 32.2(4), 31.4 (2), 36.9 (5)
Unit Volume (gallons)	685,000 (2), 1,530,000 (4)
	1,495,000 (2), 1,757,000 (5)
Total Volume (gallons)	19,265,000
Cover Type	Fixed (13)
Mixer Type	Mechanical (2)
	Hydraulic (11)

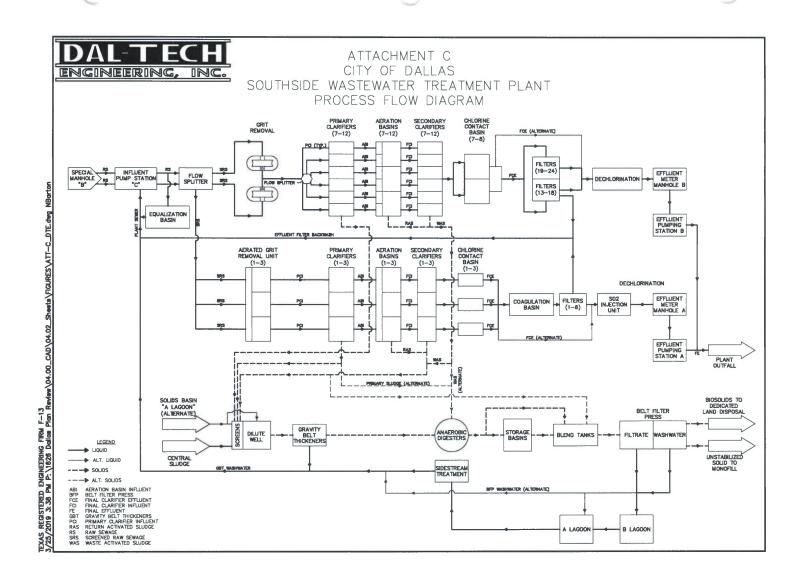
Attachment B Continued - Page 3 of 3

UNITS	DESCRIPTION
DIGESTER SLUDGE RECIRCULATION PUMPS	
Number of Units	25
Туре	Centrifugal
SLUDGE HEAT EXCHANGERS	
Number of Units	23
Type	Spiral (2)
	Concentric Tube (21)
SLUDGE TRANSFER PUMPS	
Number of Units	25
Туре	Progressive cavity (19)
	Centrifugal (6)
SIDE STREAM AERATION Bio-Reactors	
Number of Units	2
Unit Volume (MG)	2.5
Number of Clarifiers	2
BLEND TANKS	
Number of Units	2
Diameter (ft)	55
SWD (ft)	36
Unit Volume (gallons)	640,000
Total Volume (gallons)	1,280,000
BELT PRESSES	
Number of Units	12
Туре	8 Roller
SLUDGE HOLDING BASINS	
Number of Units	3
Unit Volume (MG)	A1 (15.5) A2(15.5) A3(31)
Total Volume (MG)	62
, and the same of	

ATTACHMENT C

Process Flow Diagram

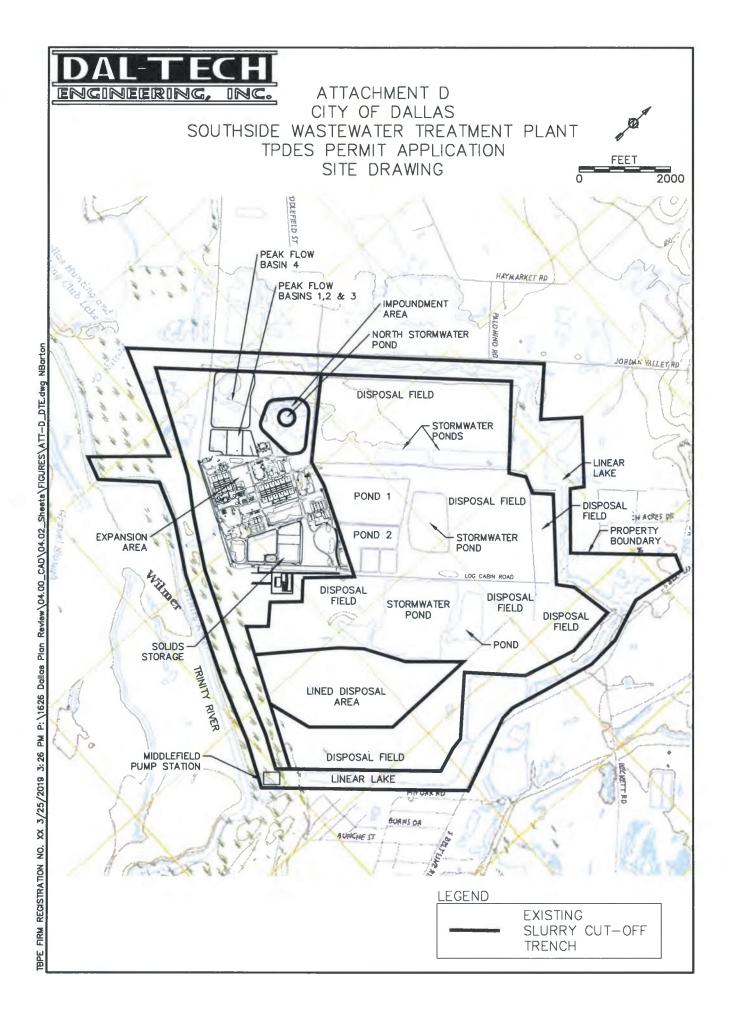
(Tech Report 1.0 Section 2C)



ATTACHMENT D

Site Drawing

(Tech Report 1.0 Section 3)



ATTACHMENT E

Sewage Sludge Solids Management Plan

(Tech Report 1.0 Section 6G.1)

ATTACHMENT E1

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

(Form 10054, Page 9 of 80, Section 6G.1)

A. Treatment units and processes dimensions and capacities

The City of Dallas has consolidated all solids treatment, processing and disposal at SWWTP. Solids from CWWTP are sent to the SWWTP via a 13-mile, 16 inch-diameter force main.

Southside WWTP Solids Processing Equipment

Unit	Number of Units	Unit Dimensions and Type	Capacity
Gravity Belt Thickeners	6	Andritz 3-meter	900 gpm, each
Anaerobic Sludge Digesters	13	65' diameter and 30' deep with fixed roof (2) 90' diameter and 30' deep with fixed roof (11)	10,058,000 gals, total
Digester Sludge Recirculation Pumps	25	Centrifugal	300gpm (10) 2,900gpm (15)
Digested Sludge Pumps	7	Progressive Cavity	600 gpm (2) 900 gpm (5)
Sludge Transfer Pumps	16	Progressive Cavity	500 gpm (6) 550 gpm (10)
Sludge Heat Exchangers	23	Spiral (2) Standard (21)	12.9MBtU/hr (6) 2.1MBTU/hr (4) 6.5MBTU/hr (3) 1MBTU/hr (8)
Blend Tanks	2	55' diameter and 36' deep, close-top (2); one each for CWWTP solids and for SWWTP solids	1,280,000 gal, total
Belt Presses	12	Ashbrook, Winklepress, 2-Meter (12)	180 gpm, each
Sludge Storage Basins	3	A3 - 525'X388' A2 - 525'X215' A1 - 525'X280'	62 MG

SWWTP has two types of surface solids disposal units: a 200-acre, lined, surface disposal area with a leachate collection system, and approximately 900 acres of dedicated land disposal (DLD) area. Both methods are considered to have indefinite capacity; and, therefore, no closure plans have been developed.

- B. Solids generated at 100, 75, 50 and 25 percent of design flow.
- C. Mixed liquor suspended solids operating range at design and projected actual flow

The SWWTP uses a conventional single-sludge system for nitrification in its activated sludge process following primary clarification. The activated sludge process is controlled to maintain an MLSS level ranging from 1,800 to 3,500 mg/L.

D. Description of solids removal, quantity of solids to be removed, and a schedule for solids removal

The City of Dallas has consolidated solids treatment, and disposal for both CWWTP and SWWTP at SWWTP. Solids from CWWTP are pumped through a 13-mile force main to SWWTP. CWWTP sends an average of 1.5 MGD, approximately 1% solids, to SWWTP.

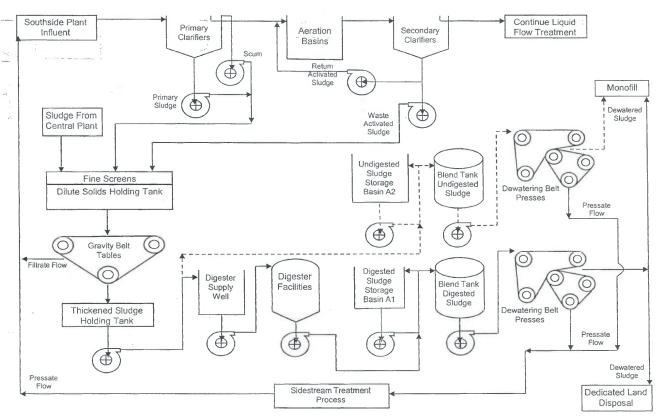
SWWTP and CWWTP solids are typically thickened, digested, dewatered and disposed on either the dedicated land disposal fields or monofill. Any solids that are not fully digested will be disposed of in the monofill. At the CWWTP, sludge removed from the clarification processes is combined and stored briefly prior to pumping to the SWWTP.

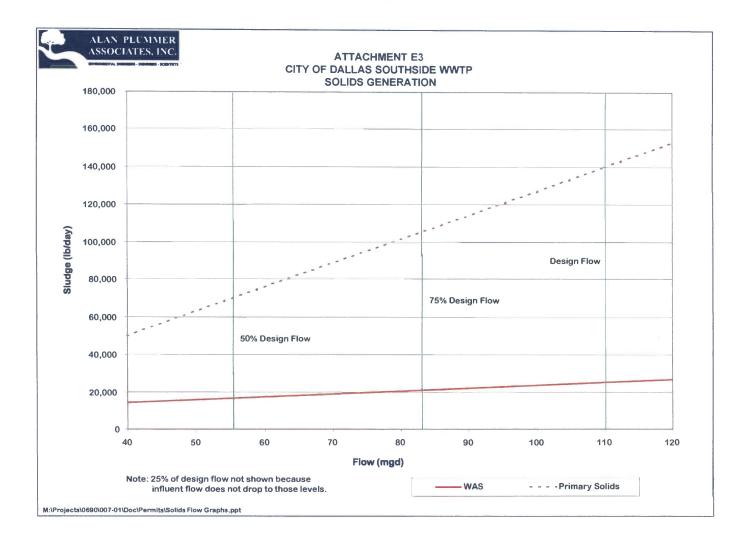
On average, 120 dry tons of solids per day are wasted from both wastewater treatment plants. Approximately on e-third of the solids are from the water treated at the SWWTP, and the remaining two-thirds are sent to the SWWTP from the C WWTP.

E. Identification and ownership of the ultimate sludge disposal site

All solids are ultimately disposed of on land at the SWWTP site, which is owned by the City of Dallas. Public access is controlled, and no beneficial land reuse is proposed.

Management Practices Solids Process Flow Diagram





ATTACHMENT F

Pollutant Analysis of Treated Effluent

(Tech Report 1.0 Section 7)

ATTACHMENT F

City of Dallas, Southside Wastewater Treatment Plant Pollutant Analysis of Treated Effluent (Tech Report 1.0, Section 7)

*TPDES permits only †TLAP permits only

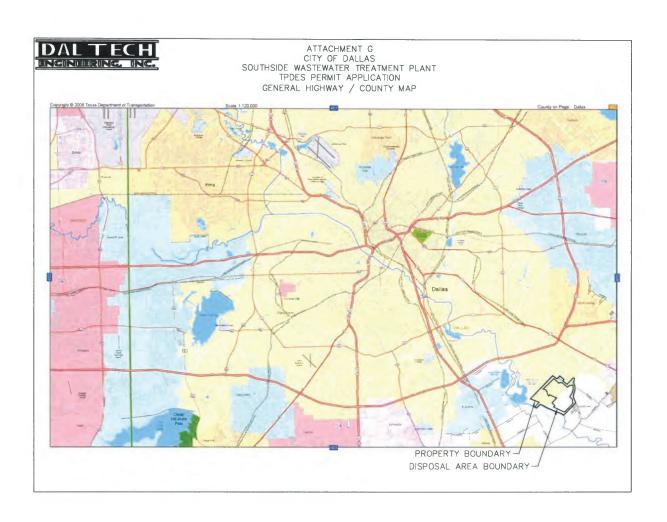
Table1.0(1) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Averag e Conc.	Max Conc.	No. of Samples	Sampl e Type	Sample Date/Tim e
CBOD ₅ , mg/l	2.1	2.1	1	СР	10/08/24 @8:30 AM
Total Suspended Solids, mg/l	2.12	2.12	1	СР	10/08/24 @8:30 AM
Ammonia Nitrogen, mg/l	< 0.28	< 0.28	1	СР	10/08/24 @8:30 AM
Nitrate Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Sulfate, mg/l	103.34	103.34	1	СР	10/09/24 @8:30 AM
Chloride, mg/l	86.68	86.68	1	СР	10/09/24 @8:30 AM
Total Phosphorus, mg/l	5.75	5.75	1	СР	10/09/24 @8:30 AM
pH, standard units	7.04 @ 20.5 °C	7.04 @ 20.5 °C	1	G	10/08/24 @8:30 AM
Dissolved Oxygen*, mg/l	6.69	6.69	1	G	10/08/24 @8:30 AM
Chlorine Residual, mg/l	< 0.05	< 0.05	1	G	10/08/24 @8:30 AM
E.coli (CFU/100ml) freshwater	2.0	2.0	1	G / (MPN)	10/08/24 @8:30 AM
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	< 2.5	< 2.5	1	G	10/09/24 @8:30 AM
Alkalinity (CaCO ₃)*, mg/l	86	86	1	СР	10/08/24 @8:30 AM

ATTACHMENT G

General Highway (County) Map

(Tech Report 1.0 Section 11A)



ATTACHMENT H

USDA Conservation Service Soil Map

(Tech Report 1.0 Section 11A)



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Conservation

Service

ATTACHMENT H CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION USDA NRCS SOILS MAP



Very Stony Spot

Wet Spot

Short Steep Slope

Cities

Oceans

Rails

US Routes

Major Roads

Streams and Canals

Interstate Highways

Other

Special Line Features

元 Gully

Other

Political Features

Water Features

Transportation

•

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MAP LEGEND

0

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Area of Interest (AOI)

Area of Interest (AOI)

Solls

Soil Map Units

Special Point Features Blowout

(+) Borrow Pit

X Clay Spot

*

Closed Depression .

Gravel Pit X

Gravelly Spot ٨ Landfill

0 Lava Flow

٨ علد Marsh or swamp

Mine or Quarry 氽 Miscellaneous Water 0

• Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot ::

Severely Eroded Spot

Sinkhole \Diamond

Þ Slide or Slip

Sodic Spot

= Spoil Area

Stony Spot

MAP INFORMATION

Map Scale: 1:44,900 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for accurate map

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 14N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Dallas County, Texas Survey Area Data: Version 8, Jan 14, 2010

Date(s) aerial images were photographed: 1995

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting

of map unit boundaries may be evident.

ATTACHMENT I

Federal Emergency Management Plan

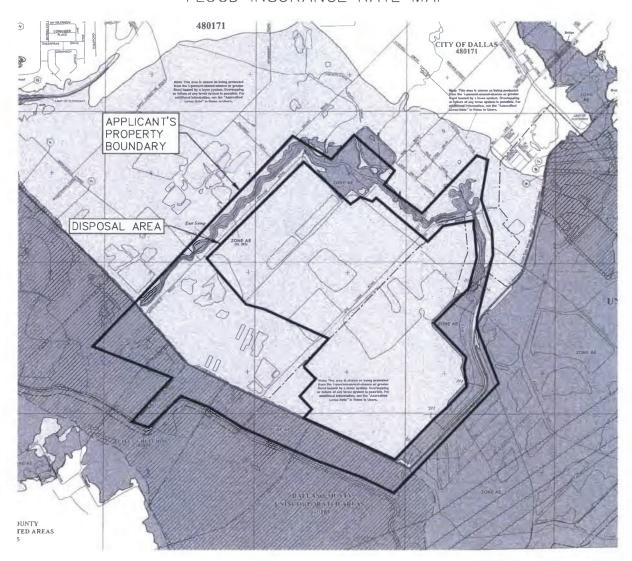
(Tech Report 1.0 Section 11A)



SOUTHSIDE 10060-006

ATTACHMENT I CITY OF DALLAS

SOUTHSIDE WASTEWATER TREATMENT PLANT TPDES PERMIT APPLICATION FLOOD INSURANCE RATE MAP



LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

No base flood elevations determined ZONE A

ZONE AO

Flood depths of Lto Ffeer usually sheet low on slipping terrain, average depths determined For areas of alin al fan flooding, velocities (45) determined

ZONE A99 To ac protected from 100-scar florid by Federal florid protection system under construction on base florid cleration-determined.

ZONE V

ZONE VE Chisal black with velocity hazard wine intuin base flood elevations determined

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

ZONE X

Fred it 70° ear thirth aroas st 190 year flood with average depths in less than 1 feet or with drainage areas less than 1 square mile and awas protected be-leves from 100 year flood.

ZONE X

Areas determined to be cutside 300-year flordolain.

Areas in which flood bicards are undo-entitled

FEMA MAP PANEL ID: 48113C0520J 48113C0540J

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ATTACHMENT J

Groundwater Monitoring Data

(Tech Report 1.0 Section 11E)

ATTACHMENT J1

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT GROUNDWATER MONITORING WELL INFORMATION

(Form 10054, Page 17 of 80, Section 11E)

Groundwater Monitoring Program

There are 30 groundwater monitoring wells located along the slurry cutoff wall system surrounding the sludge application site. Some of the wells are located inside the slurry cutoff wall system and some are located outside the system. The wells penetrate the entire saturated thickness of the aquifer beneath the site. Some of the wells are located in areas upgradient from the landfill, so that they will not be affected by potential leachate migration from the landfill. The depth to water has been recorded as ranging from 1-foot 6-inches to 24-foot 2-inches.

Each well has a Well Wizard monitoring system. The Well Wizard monitoring system has a liquid level indicator and a sample pump. The sample pump is pneumatically-operated, positive-displacement, gas-bladder pumping unit.

The monitoring wells are purged a minimum of three casing volumes prior to sampling. Sample fractions for PCB and general mineral analyses are collected directly from the discharge line of the Well Wizard bladder pump. They are typically delivered to the Southside WWTP laboratory for analysis within 8 hours of sampling. The sample fractions for metal analysis are preserved using nitric acid, while the sample fractions for chloride, sulfate, and total dissolved solids analysis are preserved with sulfuric acid. The pH and dissolved oxygen level are measured immediately upon receipt of the samples in the laboratory, or in the field prior to filtering and preserving.

Profile of Soil Types Down to Groundwater Table

(See Attachment J2)

ATTACHMENT J2

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT GROUNDWATER SOIL TYPES

(Form 10054, Page 17 of 80, Section 11E)

LOG OF BORING

Project: SOUTHSIDE WASTEWATER TREATMENT PLANT

ocation: Dal	las, T	x Date: 7-15-86 Type: Auger	E	Boring	No: C-55
DEPTH FEET SYMBOL SAMPLE	N-BLOWS PEH FOOT	MATERIAL DESCRIPTION	CORE	CORE	ELEV.
10		Water Surface 7-15-86 8-4-86 -LL=23; PI=10; (-)200=43\$ CLAYEY SAND: Tan to Tan and Light Gray, Fire Grained (SC-CL) SILTY SAND: Tan to Light Gray, Fire Grained (SM) GRAVELY SAND: Tan to Coarse Grained (SW) MARL: Dark Gray (Taylor Formation) TOTAL DEPTH OF BCRING: 25.5 Feet			3/1.5
30		NOTE: The boring was advanced to a depth of 25.5 feet below the ground surface without using drilling fluid and groundwater was encountered at the 1.5 foot depth. Upon completion, the water surface was 1.8 feet below the ground surface and the hole was open to the 25.5 foot depth.			

ATTACHMENT K

Pollutant Analysis Requirements

(Tech Report 1.0 Worksheet 4.0)

	AVG			
	Effluent	MAX		
	Conc.	Effluent	No. of	MAL
Pollutant	(ug/L)	Conc. (ug/L)		(ug/L)
Acrylonitrile ²	< 3.90	< 7.80	2	50
Aldrin ²	< 0.000565	< 0.00113	2	0.01
Aluminum ¹	12.28	19.4	3	2.5
Anthracene ²	< 0.75	< 1.50	2	10
Antimony ^{1,2}	< 1.83	7.83	6	5
Arsenic ¹	1.05	1.2	6	0.5
Barium	11.5	16.1	3	3
Benzene ²	< 0.248	< 0.496	2	10
Benzidine ²	< 6.2	< 20	2	50
Benzo(a)anthracene ²	< 0.0865	< 0.173	2	5
Benzo(a)pyrene ²	< 0.182	< 0.364	2	5
Bis(2-chloroethyl)ether ²	< 1.08	< 2.16	2	10
Bis(2-ethylhexyl)phthalate ^{1,2}	< 0.3898	0.641	2	10
Bromodichloromethane	5.15	11.8	2	10
Bromoform	7.45	14.9	2	10
Cadmium ²	< 0.129	< 0.258	6	1
Carbon Tetrachloride ²	< 0.63	< 1.26	2	2
Carbaryl ²	< 0.0925	< 0.185	2	5
Chlordane ²	< 0.0515	< 0.103	2	0.2
Chlorobenzene ²	< 0.4725	< 0.945	2	10
Chlorodibromomethane	5.735	18.6	2	10
Chloroform	10.1525	33.5	2	10
Chlorpyrifos ²	< 0.025	< 0.050	2	0.05
Chromium (Total) ^{1,2}	< 0.7475	1.7	6	3
Chromium (Tri) (*1)	< 0.56125	1.7	6	N/A
Chromium (Hex) 1,2	< 2.13	5.8	6	3
Copper ¹	5.188	9:76	6	2
Chrysene ²	< 0.111	< 0.222	2	5
p-Chloro-m-Cresol ²	< 0.785	< 1.57	2	10
4,6-Dinitro-o-Cresol ²	< 0.72	< 1.44	2	50
p-Cresol ^{2,3}	< 0.785	< 1.57	2	10
Cyanide (*2) ^{1,2}	< 1.712	2.86	6	10
4,4' - DDD ²	< 0.000407	< 0.000814	2	0.1
4,4'-DDE ²	< 0.000545	< 0.00109	2	0.1
4,4'-DDT ²	< 0.001895	< 0.0379	2	0.02
2,4-D ¹	0.0545	0.109	2	0.7
Demeton (O and S) ²	< 0.02575	< 0.0515	2	0.20
Diazinon ²	< 0.02575	< 0.0515	2	0.5/0.1
1,2-Dibromoethane ²	< 0.3155	< 0.631	2	10
m-Dichlorobenzene ²	< 0.72	< 1.44	2	10
o-Dichlorobenzene ²	< 0.81	< 1.62	2	10
p-Dichlorobenzene ²	< 0.775	< 1.55	2	10
3,3'-Dichlorobenzidine ²	< 0.1705	< 0.341	2	5
1,2-Dichloroethane ²	< 0.765	< 1.53	2	10

	AVG	MAX		
	Effluent	Effluent Conc.	No of	MAL
Pollutant	Conc. (ug/L)	(ug/L)	Samples	(ug/L)
1,1-Dichloroethylene ²	< 0.2875	< 0.575	2	10
Dichloromethane ²	< 0.4145	< 0.829	2	20
1,2-Dichloropropane ²	< 0.775	< 1.55	2	10
1,3-Dichloropropene ²	< 0.975	< 1.95	2	10
Dicofol ²	< 0.000025	< 0.00005	2	1
Dieldrin ²	< 0.0004765	< 0.000953	2	0.02
2,4-Dimethylphenol ²	< 0.3245	< 0.649	2	10
Di-n-Butyl Phthalate 1,2	< 0.3105	0.495	2	10
Diuron ²	< 0.00257	< 0.00514	2	0.09
Endosulfan I (alpha) ²	< 0.000535	< 0.00107	2	0.01
Endosulfan II (beta) ²	< 0.00061	< 0.00122	2	0.02
Endosulfan Sulfate ²	< 0.00056	< 0.00112	2	0.1
Endrin ²	< 0.00078	< 0.00156	2	0.02
Ethylbenzene ²	< 0.439	< 0.878	2	10
Fluoride	2340	2360	2	500
Guthion ²	< 0.02575	< 0.02615	2	0.1
Heptachlor ²	< 0.00223	< 0.00446	2	0.01
Heptachlor Epoxide ²	< 0.00067	< 0.00134	2	0.01
Hexachlorobenzene ²	< 0.1535	< 0.307	2	5
Hexachlorobutadiene ²	< 0.3095	< 1.00	2	10
Hexachlorocyclohexane (alpha) ²	< 0.00071	< 0.00142	2	0.05
Hexachlorocyclohexane (beta) ²	< 0.001945	< 0.00389	2	0.05
gamma-Hexachlorocyclohexane	< 0.001495	< 0.00299	2	0.5
(Lindane) ²	< 0.001493	< 0.00233	2	0.5
Hexachlorocyclopentadiene ²	< 3.645	< 10.0	2	10
Hexachloroethane ²	< 0.263	< 0.526	2	20
Hexachlorophene ²	<5.0	< 10.0	2	10
Lead ¹	< 0.0827	0.146	6	0.5
Malathion ²	< 0.02575	< 0.02615	2	0.1
Mercury	0.00146	0.00223	24	0.005
Methoxychlor ²	< 0.00195	< 0.00390	2	2
Methyl Ethyl Ketone ²	< 2.265	< 4.53	2	50
Mirex ²	< 0.01	< 0.02	2	0.02
Nickel	5.09	5.76	6	2
Nitrate-Nitrogen	15950	16400	2	100
Nitrobenzene ²	< 0.83	< 1.66	2	10
N-Nitrosodiethylamine ²	< 0.875	< 1.75	2	20
N-Nitroso-di-n-Butylamine ²	< 0.745	< 1.49	2	20
Nonylphenol ²	< 5.0	< 10.0	2	333
Parathion (ethyl) ²	< 0.02575	< 0.02615	2	0.1
Pentachlorobenzene ²	< 0.535	<1.07	2	20
Pentachlorophenol ²	< 0.117	< 0.234	2	5
Phenanthrene ²	< 0.71	< 1.42	2	10

Domestic Worksheet 4.0 - Toxic Materials

	AVG	MAX		
	Effluent	Effluent		
	Conc.	Conc.	No of	MAL
Pollutant	(ug/L)	(ug/L)	Samples	(ug/L)
Polychlorinated Biphenyls (PCB's) (*3) ²	< 0.05	< 0.100	2	0.2
Pyridine ²	< 3.16	< 5.0	2	20
Selenium ^{1,2}	< 1.021	2.06	6	5
Silver ²	< 0.059	< 0.118	6	0.5
1,2,4,5-Tetrachlorobenzene ²	< 0.66	< 1.32	2	20
1,1,2,2-Tetrachloroethane ²	< 0.855	< 1.71	2	10
Tetrachloroethylene ²	< 0.45	< 0.900	2	10
Thallium ²	< 0.1075	< 0.215	6	0.5
Toluene ²	< 0.805	< 1.61	2	10
Toxaphene ²	< 0.03845	< 0.0769	2	0.3
2,4,5-TP (Silvex) ²	< 0.0206	< 0.0212	2	0.3
Tributyltin (see instructions for explanation) 4				0.01
1,1,1-Trichloroethane ²	< 0.725	< 1.45	2	10
1,1,2-Trichloroethane ²	< 0.3735	< 0.747	2	10
Trichloroethylene ²	< 0.845	< 1.69	2	10
2,4,5-Trichlorophenol ²	< 1.00	< 2.00	2	50
TTHM (Total Trihalomethanes) ²	24.75	24.8	2	10
Vinyl Chloride ²	< 0.296	< 0.592	2	10
Zinc	10.8	14.6	6	5

Domestic Worksheet 4.0 (2) A -Metals, Cyanide, Phenols

	AVG	MAX		
	Effluent	Effluent		
	Conc.	Conc.	No. of	MAL
Pollutant			Samples	(ug/L)
	(ug/L)	(ug/L)		
Antimony ^{1,2}	< 1.83	7.83	6	5
Arsenic ¹	1.05	1.2	6	0.5
Beryllium ^{1,2}	< 0.1125	0.305	6	0.5
Cadmium ²	< 0.129	< 0.258	6	1
Chromium (Total) 1,2	< 0.7475	1.7	6	3
Chromium (Hex) 1,2	< 2.13	5.8	6	3
Chromium (Tri) (*1)	< 0.56125	1.7	6	N/A
Copper ¹	5.188	9.76	6	2
Lead ¹	< 0.0827	0.146	6	0.5
Mercury	0.00146	0.00223	24	0.005
Nickel	5.09	5.76	6	2
Selenium ^{1,2}	< 1.021	2.06	6	5
Silver ²	< 0.059	< 0.118	6	0.5
Thallium ²	< 0.1075	< 0.215	6	0.5
Zinc	10.8	14.6	6	5
Cyanide (*2) 1,2	< 1.712	2.86	6	10
Phenols, Total ²	< 2.9	< 5.8	6	10

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

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

¹ One of more estimated values, J Flagged; Value > MDL but < Lab RL

 $^{^{2}\,}$ Used 1/2 MDL value for "< "value in the calculated average per TCEQ, TSWQS-ip doc RG-194.

Table 4.0 (2)B - Volatile Compounds

	AVG	MAX		
Pollutant	Effluent	Effluent	¹ No. of	MAL
Pollutant	Conc.	Conc.	Samples	(μg/L)
	(µg/L)	(µg/L)		
Acrolein ¹	< 11.55	< 23.1	2	50
Acrylonitrile ¹	< 3.90	< 7.80	2	50
Benzene ¹	< 0.248	< 0.496	2	10
Bromoform	7.45	14.9	2	10
Carbon Tetrachloride ¹	< 0.63	< 1.26	2	2
Chlorobenzene ¹	< 0.4725	< 0.945	2	10
Chlorodibromomethane	5.735	18.6	2	10
Chloroethane ¹	< 0.725	< 1.45	2	50
2-Chloroethylvinyl Ether ¹	< 0.6	< 1.20	2	10
Chloroform	10.1525	33.5	2	10
Dichlorobromomethane [Bromodichloromethane]	5.15	11.8	2	10
1,1-Dichloroethane ¹	< 0.515	< 1.03	2	10
1,2-Dichloroethane ¹	< 0.765	< 1.53	2	10
1,1-Dichloroethylene ¹	< 0.2875	< 0.575	2	10
1,2-Dichloropropane ¹	< 0.775	< 1.55	2	10
1,3-Dichloropropylene ¹ [1,3-Dichloropropene]	< 0.975	< 1.95	2	10
1,2-Trans-Dichloroethylene ¹	< 0.4515	< 0.903	2	10
Ethylbenzene ¹	< 0.439	< 0.878	2	10
Methyl Bromide ¹	< 0.94	< 1.88	2	50
Methyl Chloride ¹	< 0.4705	< 0.941	2	50
Methylene Chloride ¹	< 0.4145	< 0.829	2	20
1,1,2,2-Tetrachloroethane ¹	< 0.855	< 1.71	2	10
Tetrachloroethylene ¹	< 0.45	< 0.900	2	10
Toluene ¹	< 0.805	< 1.61	2	10
1,1,1-Trichloroethane ¹	< 0.725	< 1.45	2	10
1,1,2-Trichloroethane ¹	< 0.3735	< 0.747	2	10
Trichloroethylene ¹	< 0.845	< 1.69	2	10
Vinyl Chloride ¹	< 0.296	< 0.529	2	10

 $^{^{1}\,}$ Used 1/2 MDL value for "< "value in the calculated average per TCEQ, TSWQS-ip doc RG-194.

Table 4.0 (2)C - Acid Compounds

Pollutant	AVG Effluent Conc. (µg/L)	MAX Effluent Conc. (μg/L)	No. of Samples	MAL (µg/L)
2-Chlorophenol ¹	< 0.3245	< 0.649	2	10
2,4-Dichlorophenol ¹	< 0.157	< 0.314	2	10
2,4-Dimethylphenol ¹	< 0.3245	< 0.649	2	10
4,6-Dinitro-o-Cresol ¹	< 0.72	< 1.44	2	50
2,4-Dinitrophenol ¹	< 0.805	< 1.61	2	50
2-Nitrophenol ¹	< 0.835	< 1.67	2	20
4-Nitrophenol ¹	< 3.0275	< 7.2	2	50
P-Chloro-m-Cresol ¹	< 0.785	< 1.57	2	10
Pentalchlorophenol	< 0.117	< 0.234	2	5
Phenol ¹	< 0.2115	< 0.423	2	10
2,4,6-Trichlorophenol ¹	< 0.71	< 1.42	2	10

 $^{^{1}\,}$ Used 1/2 MDL value for "< "value in the calculated average per TCEQ, TSWQS-ip doc RG-194.

Table 4.0 (2)D - Base/Neutrals Compounds

	AVG	MAX		
Ballinaana	Effluent	Effluent	No. of	MAL
Pollutant	Conc.	Conc.	Samples	(μg/L)
	(µg/L)	(µg/L)		
Acenaphthene ¹	< 0.695	< 1.39	2	10
Acenaphthylene ¹	< 0.705	< 1.41	2	10
Anthracene ¹	< 0.75	< 1.50	2	10
Benzidine ¹	< 6.2	< 20	2	50
Benzo(a)Anthracene ¹	< 0.0865	< 0.173	2	5
Benzo(a)Pyrene ¹	< 0.182	< 0.364	2	5
3,4-Benzofluoranthene ¹	< 1.02	< 2.04	2	10
Benzo(ghi)Perylene ¹	< 1.34	< 2.68	2	20
Benzo(k)Fluoranthene ¹	< 1.344	< 5.00	2	5
Bis(2-Chloroethoxy)Methane ¹	< 0.88	< 1.76	2	10
Bis(2-Chloroethyl)Ether ¹	< 1.08	< 2.16	2	10
Bis(2-Chloroisopropyl)Ether ¹	< 0.895	< 1.79	2	10
Bis(2-Ethylhexyl)Phthalate ^{1,2}	< 0.3898	0.641	2	10
4-Bromophenyl Phenyl Ether ¹	< 0.128	< 0.256	2	10
Butyl benzyl Phthalate ¹	< 0.1685	< 0.337	2	10
2-Chloronaphthalene ¹	< 0.462	< 0.462	2	10
4-Chlorophenyl phenyl ether ¹	< 0.64	< 1.28	2	10
Chrysene ¹	< 0.111	< 0.222	2	5
Dibenzo (a, h) Anthracene 1	< 0.0865	< 0.173	2	5
1,2-(o)Dichlorobenzene ¹	< 0.81	< 1.62	2	10
1,3-(m)Dichlorobenzene ¹	< 0.72	< 1.44	2	10
1,4-(p)Dichlorobenzene ¹	< 0.775	< 1.55	2	10
3,3-Dichlorobenzidine ¹	< 0.1705	< 0.341	2	5
Diethyl Phthalate ¹	< 0.795	< 1.59	2	10
Dimethyl Phthalate ¹	< 0.6998	< 2.50	2	10
Di-n-Butyl Phthalate ^{1,2}	< 0.3105	0.495	2	10
2,4-Dinitrotoluene ¹	< 0.655	< 1.31	2	10
2,6-Dinitrotoluene ¹	< 0.0805	< 1.61	2	10
Di-n-Octyl Phthalate ¹	< 0.1865	<0.373	2	10
1,2-Diphenylhydrazine (as Azobenzene) ¹	< 0.745	< 1.49	2	20
Fluoranthene ¹	< 0.795	< 1.59	2	10

Table 4.0 (2)D - Base/Neutrals Compounds

Pollutant	AVG Effluent Conc. (µg/L)	MAX Effluent Conc. (μg/L)	¹ No. of Samples	MAL (μg/L)
Fluorene ¹	< 0.815	< 1.63	2	10
Hexachlorobenzene ¹	< 0.1535	< 0.307	2	5
Hexachlorobutadiene ¹	< 0.3095	< 1.00	2	10
Hexachlorocyclo-pentadiene ¹	< 3.645	< 10.0	2	10
Hexachloroethane ¹	< 0.263	< 0.526	2	20
Indeno(1,2,3-cd)pyrene ¹	< 1.145	< 2.29	2	5
Isophorone 1	< 0.82	< 1.64	2	10
Naphthalene ¹	< 0.7605	< 2.50	2	10
Nitrobenzene ¹	< 0.83	< 1.66	2	10
N-Nitrosodimethylamine ¹	< 1.01	< 2.02	2	50
N-Nitrosodi-n-Propylamine ¹	< 1.44	< 2.88	2	20
N-Nitrosodiphenylamine 1	< 0.905	< 1.81	2	20
Phenanthrene ¹	< 0.71	< 1.42	2	10
Pyrene ¹	< 0.089	< 0.178	2	10
1,2,4-Trichlorobenzene ¹	< 0.55075	< 1.61	2	10

 $^{^{\}rm 1}$ Used 1/2 MDL value for "< "value in the calculated average per TCEQ, TSWQS-ip doc RG-194.

 $^{^{2}}$ One of more estimated values, J Flagged; Value > MDL but < Lab RL

Table 4.0 (2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/L)	MAX Effluent Conc. (μg/L)	No. of Samples	MAL (µg/L)
Aldrin ¹	< 0.000565	< 0.00113	2	0.01
alpha-BHC (Hexachlorocyclohexane) ¹	< 0.00071	< 0.00142	2	0.05
beta-BHC (Hexachlorocyclohexane) ¹	< 0.001945	< 0.00389	2	0.05
gamma-BHC (Hexachlorocyclohexane) ¹	< 0.001495	< 0.00299	2	0.05
delta-BHC (Hexachlorocyclohexane) ¹	< 0.001225	< 0.00245	2	0.05
Chlordane ¹	< 0.0515	< 0.103	2	0.2
4,4-DDT ¹	< 0.001895	< 0.0379	2	0.02
4,4-DDE ¹	< 0.000545	< 0.00109	2	0.1
4,4,-DDD ¹	< 0.000407	< 0.000814	2	0.1
Dieldrin ¹	< 0.0004765	< 0.000953	2	0.02
Endosulfan I (alpha) ¹	< 0.000535	< 0.00107	2	0.01
Endosulfan II (beta) ¹	< 0.00061	< 0.00122	2	0.02
Endosulfan Sulfate ¹	< 0.00056	< 0.00112	2	0.1
Endrin ¹	< 0.00078	< 0.00156	2	0.02
Endrin Aldehyde ¹	< 0.00059	< 0.00118	2	0.1
Heptachlor ¹	< 0.00223	< 0.00446	2	0.01
Heptachlor Epoxide ¹	< 0.00067	< 0.0134	2	0.01
PCB-1242 ¹	< 0.00625	< 0.0125	2	0.2
PCB-1254 ¹	< 0.0039	< 0.0078	2	0.2
PCB-1221 ¹	< 0.00625	< 0.0125	2	0.2
PCB-1232 ¹	< 0.00625	< 0.0125	2	0.2
PCB-1248 ¹	< 0.00625	< 0.0125	2	0.2
PCB-1260 ¹	< 0.0039	< 0.0078	2	0.2
PCB-1016 ¹	< 0.00625	< 0.0125	2	0.2
Toxaphene ¹	< 0.03845	< 0.0769	2	0.3

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

 $^{^{1}}$ Used 1/2 MDL value for "< "value in the calculated average per TCEQ, TSWQS-ip doc RG-194.

Section 3. Dioxin/Furan Compounds

Α.	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					
		ch compound identified, provide a brief description of the conditions of its/their nce at the facility.					
	Screening data returned nondetect (ND) results. None apply.						
В.	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.						
	N/A						

C. 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: N/A

Table 4.0(2)F - Dioxin/Furan Compounds

Compound	Toxic Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Słudge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDD	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDDs	0.1	N/A	N/A	N/A	N/A	50
1,2,3,4,6,7,8 HpCDD	0.01	N/A	N/A	N/A	N/A	50
2,3,7,8 TCDF	0.1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDF	0.05	N/A	N/A	N/A	N/A	50
2,3,4,7,8 PeCDF	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDFs	0.1	N/A	N/A	N/A	N/A	50
2,3,4,7,8 HpCDFs	0.01	N/A	N/A	N/A	N/A	50
OCDD	0.0003	N/A	N/A	N/A	N/A	100
OCDF	0.0003	N/A	N/A	N/A	N/A	100
PCB 77	0.0001	N/A	N/A	N/A	N/A	0.5
PCB 81	0.0003	N/A	N/A	N/A	N/A	0.5
PCB 126	0.1	N/A	N/A	N/A	N/A	0.5
PCB 169	0.03	N/A	N/A	N/A	N/A	0.5
Total		N/A	N/A	N/A	N/A	

ATTACHMENT L

Toxicity Testing Requirements

(Tech Report 1.0 Worksheet 5.0 Section 1)

Attachment L: Tech Report 1.0, Worksheet 5.0, Section 1 Southside Wastewater Treatment Plant Toxicity Testing Requirements

SUMMARY OF WET TESTS							
Year	2020	2021	2022	2023	2024	Total	
No. of Tests	14	12	18	14	6	64	
No. of Pass	13	12	15	14	6	60	
No. of Excep	1	0	3	0	0	0	
No. of Chron	8	8	12	10	4	42	
No. of Acute	6	4	6	4	2	22	

- * On September 7, 2021 approval for reduced quarterly chronic testing for the water flea C. dubla and the fathead minnow P. promelas was received from TCEQ. Chronic testing was reduced to 1 per 6 months for Ceriodaphnia dubia, and 1 per 12 months for Pimephalas promelas.
- * Chronic testing for C. dubia failed 2/1/22 followed by 2 passing retests and then failed 5/24/22 followed by two additional passing retests.

 Acute testing for D. pulex failed 2/1/22 followed by 2 passing retests.

 Both chronic testing for C. dubia and acute testing for D. pulex reverted to non-reduced sampling frequency.

ATTACHMENT M

Summary of WET Tests

(Tech Report 1.0 Worksheet 5.0 Section 3)

Attachment M: Summary of WET Tests Southside Wastewater Treatment Plant Form 10054, Page 69 of 80, Section 3

WORKSHEET 5.0 WHOLE EFFLUENT TOXICITY TESTING

	Southsi	de WWTP WQ	0010060006 SUMMARY O	F WET TESTS 2020-20	24
				NOEC survival	NOEC Sublethal
Test No.	Report	Test Date	Test Species	(TOP3B C.O/TOP6C PP)	Chronic (tpp3BCD /tpp6C PP)
1 1 1	906959	1/28/2020		32%	32%
2	906959		Pimepheles prometas	32%	
3	906960				32%
4	906960	1/28/2020	Daphnia pulex	100%	
5	929156		Pimaphales promelas	100%	32%
	929156	7/21/2020	Cenodaphnia dubia		02.70
6			Pimephales promelas	Not analyzed due t	o contract lab error
7	929156	7/21/2020	Daphnja pulex	100%	
8	929156	7/21/2020	Pimephales promelas	100%	
9	941974	10/26/2020	Cenodaphnia dubia	32%	32%
10	941974	10/26/2020	Pimephales promelas	32%	32%
11	941492	10/26/2020	Daphnia pulex	100%	
12	941492	10/26/2020	Pimephales promelas	100%	
13	948970	12/8/2020		32%	32%
14	946970		Pimephales prometas	32%	32%
15	953791	2/2/2021	Cenodaphnia dubia	32%	32%
16	953791	2/2/2021	Pimephales promelas	32%	32%
17	967604	2/2/2021	Daphnia pulex	100%	
18	967604	2/2/2021	Pimephales promelas	100%	
19	966458 / 969650	5/18/2021	Canodaphnia dubia	32%	32%
20	966458 / 969650	5/18/2021	Pimephales promelas	32%	32%
21	975914	8/3/2021	Canodaphnia dubia	32%	32%
22	975914	8/3/2021	Pimephales promelas	32%	32%
23	975461	8/3/2021	Daphnia pulex	100%	
24	975461	8/3/2021	Pimephales promelas	100%	
25	78595	11/2/2021	Cenodaphnia dubia	32%	32%
26	78595	11/2/2021	Pimephales promelas	32%	32%
27	82405	2/1/2022	Cenodaphnia dubia	14%	10%
28	82405	2/1/2022	Pimephales prometas	32%	32%
29	82406	2/1/2022	Daphnia pulex	< 100%	
30	82406	2/1/2022	Pimephales prometas	100%	
31	83252	3/15/2022	Cenodaphnia dubia	32%	32%
32	83253	3/15/2022	Daphnia pulex	100%	
33	83254	3/29/2022	Ceriodaphnia dubia	32%	32%
34	83255	3/29/2022	Daphnia pulex	100%	
35	83257	5/24/2022	Cenodaphnia dubia	0%	0%
36	83257	5/24/2022	Pimephales prometas	32%	32%
37	83733	7/12/2022		32%	32%
38	83734	7/26/2022	Cenodaphnia dubia	32%	32%
39	82464		Cenodaphnia dubia	32%	32%
40	82464	8/16/2022	Pimephales promelas	32%	32%
41	82465	8/18/2022	Daphnia pulex	100%	
42	82465	8/16/2022	Pimephales prometas	100%	
43	83258		Cenodaphnia dubia	32%	32%
44	83258	10/18/2022	Pimephales prometas	32%	32%
45	85103	2/28/2023	Cenodaphnia dubia	32%	32%
46	85103	2/28/2023	Pimephalea prometas	32%	32%
47	85104		Daphnia pulex	100%	
4R	85104		Pimephales promelas	100%	
49	85107	4/25/2023	Ceriodaphnia dubia	32%	32%
50	85107	4/25/2023	Pimephales promelas	32%	32%
51	85107		Ceriodaphnia dubia	32%	32%
52	85105	8/29/2023	Pimephales promelas	32%	32%
52	85105	B/29/2023 B/29/2023	Daphnia pulex	100%	3270
53	85106 85106	8/29/2023 8/29/2023		100%	
54	85106 85108		Pimephales prometas Cenodaphnia dubia	100%	32%
55	85108 85108			32%	32%
56	85108 88725	2/20/2024	Pimephales promelas	32%	32%
5/	88725 88725	2/20/2024	Cenodaphnia dubia	32%	32%
	88725	2/20/2024	Pimephales prometas		32%
58	00700	0.000.00			
59	88726		Daphnia pulex	100%	
	88726 88726 88727	2/20/2024	Daphnia pulex Pimephales promelas Cenodaphnia dubia	100% 100% 32%	32%

SUMMARY OF WET TESTS										
Year	2020	2021	2022	2023	2024	Total				
No. of Tests	14	12	18	14	8	64				
No. of Pass	13	12	15	14	6	60				
No. of Exceptions	1	0	3	0	0	0				
No. of Chronic	8	8	12	10	4	42				
No. of Acute	6	4	6	4	2	22				

- On September 7, 2021 approval for reduced quarterly chronic testing for the water flea C, dubia and the fathead minnow P, prometas was received from TCEQ. Chronic testing was reduced to 1 per 8 months for Cariodaphina dubba, and 1 per 12 months for Prinephalas prometas.
- Chronic testing for C. dubia failed 2/1/22 followed by 2 passing refeats and then failed 9/2/4/22 followed by two additional passing refeats. Acute testing for D. pulsa failed 2/1/22 followed by 2 passing refeats. Both chronic testing for C. dubia and acute testing for D. pulsa reverted to non-reduced sampling frequency.

ATTACHMENT N

Effluent Parameters above the MAL

(Tech Report 1.0 Worksheet 6.0 Section 2C)

TABLE 6.0 Pollutants Measured Above the Minimum Analytical Level **DWU Southside Wastewater Treatment Plant Effluent**

									Polluta	nt Con	centratio	on (ug/L	.)						
				Year	2021					Year	2022					Yea	r 2023		
Pollutant	MAL ug/L	1/29	4/2	6/11	7/23	10/27	12/1	2/16	4/8	5/26	7/21	9/29	11/2	2/24	4/28	6/15	8/10	10/18	11/8
Arsenic	0.5	0.77	0.97	0.84	1.1	1.4	0.8	0.9	1.29	0.81	0.91	1.1	0.6			1.11	1.72	1.2	1.06
Chromium, (Hex)	3				3.4	<8								5.12			1,000		
Copper	2	14.5	2.6	2.1	8.7	3.8	4	23.1	3.6	3.6		3.2	5.2	11.4	8.1	4.9	20.6	4.09	3.1
Lead	0.5					0.8													
Nickel	2	7.8	6.1	3.2	6.1	6.5	6.6	6.5	7.1	4.4	5.2	5		5.6	5.1	5.4	6.81	5.35	4.34
Zinc	5	17.7	33.9	10.4	17.7	24.1	18.8	32.7	172	< 10	18.5	55.3	11.4	11.5	11.3	11.6	22	9.39	9.81
Cyanide, Amenable*	10	10.6	10.5																
Cyanide, Total	10	10.6	10.5																
Phenols, Total	10	65.4	17.5	12.8			35.5												
Chloroform	10	31.2						21.8			32.8			48.3			29.1		
Dichlorobromomethane	10	12						11.2			19.5			20.7			10.8		
Aluminum	2.5	16.8	8.6		13.5		200	31.9	27.7		11			16.6			38.4	19.4	
Barium	3	13.9	16.7		13.1			12.7	12.6		13.4			20.8			16.6	8.62	
2,4-D ¹	0.7													< 3.63			7.08		
Diuron	0.09				7.44						0.56			0.128			0.111		
Fluoride	500	3190			2480			2900			2320			2070			3370		
Nitrate-Nitrogen	100	1170			12200			14300			13900			10200			12300		
TTHM (Total Trihalomethanes)	10	47.7			71.1			48.4			61.9			78.3			45		

^{*} Cyanide, amenable to chlorination or weak-acid dissociable

Detection limit was above MAL due to sample dilution

ATTACHMENT O

Engineering Report

(Sewage Sludge Tech Report 1.0 Section 1A)

ATTACHMENT O

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT ENGINEERING REPORT

(Form 10056, Page 1 of 27, Section 1A)

Description of the Type of Process Facility

1. Description of type of processes and treatment units

(See Attachment B – Description of Treatment Process)

- 2. Pathogen and Vector Reduction Requirements
 - a. Anaerobic digestion is used to meet the Class B Pathogen Requirements. Temperature is maintained at 95 degrees F. Fecal coliform tests are done monthly to demonstrate conformance to the Class B requirements.
 - b. Anaerobic digesters demonstrate at least 38% volatile solids reduction in the sewage sludge. This is vector attraction reduction Alternative 1.
 - c. Class B or raw dewatered solids are mixed with soil then placed in the monofill. A cover layer of soil or other material is placed daily. This is vector attraction reduction Alternative 11.
 - d. Only Class B dewatered biosolids are placed on the dedicated land disposal fields. Soils are incorporated into the biosolids using a disk plow within six hours of disposal. This is vector attraction reduction Alternative 11.
- 3. Admixtures and blending agents

The sludge is pumped to the blend tank at the dewatering facilities. Sludge from the blend tanks is pumped to belt filter presses for dewatering using polymer conditioning.

Process Flow Diagram

(See Attachment C – Process Flow Diagram)

Flow Through Sludge Treatment Units

The quantity of sludge through each sludge process unit is provided below:

- 1. Gravity belt thickeners feed: 115 dry tons per day (2.5 MGD)
- 2. Digester Feed: 118 dry tons per day (0.500 MGD)
- 3. Belt Filter Press: 70 dry tons per day (0.68 MGD)
- 4. Solids to land disposal: 70 dry tons per day

Design Calculations

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(See Attachment B – Treatment Units)
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(See Attachment E – Sewage Sludge Solids Management Plant)

(See Attachment S – Drainage Design Calculations)

Description of Storage Methods

1. Method of control of surface water runoff

The infiltration of ground and surface water is prevented by a slurry cut-off wall system built around the sludge application site and down into the Taylor Marl shale formation.

2. Collection of leachate

A gravel layer underlying the entire SWWTP disposal site acts as a leachate collection system. The gravel layer intersects the storage ponds on the site. The content of the ponds are then pumped to the headworks of the SWWTP for treatment.

3. Bulk material storage areas

The areas for stockpiling bulking materials are shown in **Attachment T-3**.

4. 25-year, 24-hour rainfall event

(See Attachment S – Drainage Design Calculations)

Method to Control Groundwater Contamination

The Taylor Marl formation, a calcareous clay/shale formation, serves as the liner for the SWWTP sludge disposal site. The Taylor Marl formation is estimated to be a minimum of 50 to 100 feet thick directly below the SWWTP disposal site. The formation has a permeability of less

than 1x10⁻⁷ cm/sec and therefore meets the definition of a liner as outlined in paragraph 503.21 of the Federal Register.

A gravel layer underlying the entire SWWTP disposal site acts as a leachate collection system. The gravel layer intersects the storage ponds on the site. The content of the ponds are then pumped to the headworks of the SWWTP for treatment.

In addition, the plant site and monofill are protected by slurry cutoff walls. The slurry walls are thirty-six inches thick, constructed of soil and bentonite mixture and have a coefficient of permeability less than 1 x 10⁻⁷ cm/sec. The slurry wall around the plant site is keyed three feet into the underlying Taylor Marl formation. The slurry wall around the monofill is keyed five feet into the formation which exceeds the Texas Department of Health (Technical Guide No. 2) requirements of having to be keyed a minimum of 3 feet. The liner, leachate collection system, and slurry wall prevent the infiltration of contaminants into groundwater.

Groundwater monitoring wells are installed throughout the sludge surface disposal areas to ensure prompt identification of possible breaches in the slurry wall. Groundwater monitoring wells, piezometer wells, and methane monitoring are also installed around the monofill to ensure prompt identification of possible breaches in the slurry wall.

ATTACHMENT P

Groundwater Well Information

(Sewage Sludge Tech Report 1.0 Section 4)

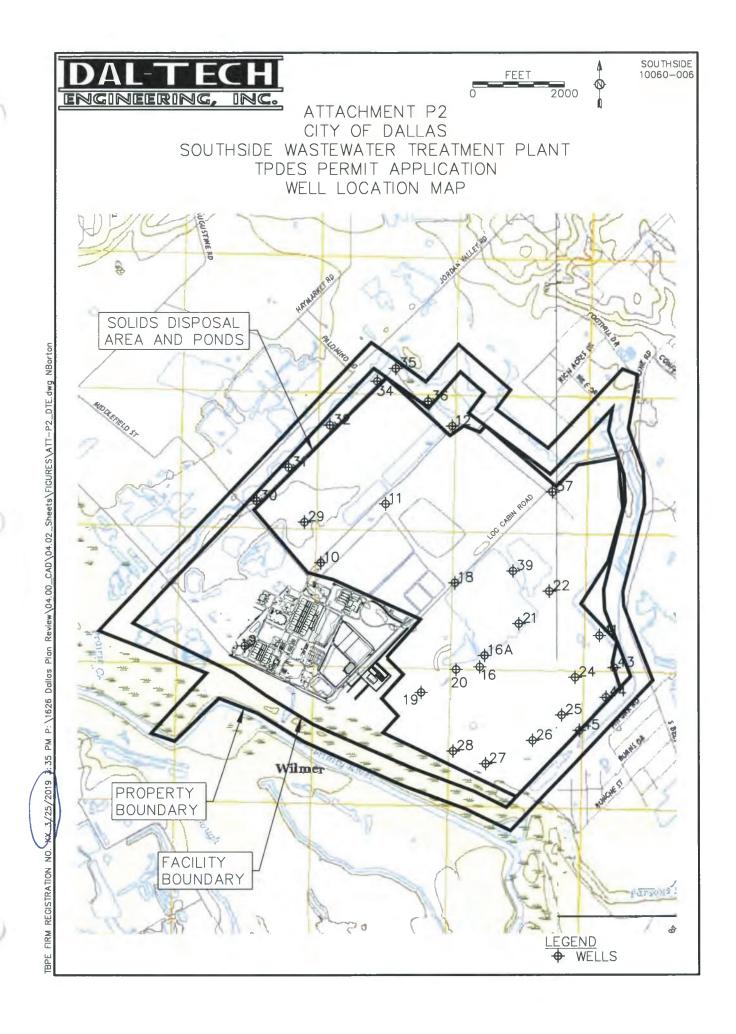
ATTACHMENT P1

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT GROUNDWATER MONITORING WELL INFORMATION

(Form 10056, Page 2 of 27, Section 4)

MW - Groundwater Monitoring Well

Well Number	Туре	Producing Y/N	Cased Y/N	Plugged Y/N	Capped Y/N	Action
9	MW	Yes	Yes	No	No	None
10	MW	Yes	Yes	No	No	None
11	MW	Yes	Yes	No	No	None
12	MW	Yes	Yes	No	No	None
16	MW	Yes	Yes	No	No	None
16A	MW	Yes	Yes	No	No	None
18	MW	Yes	Yes	No	No	None
19	MW	Yes	Yes	No	No	None
20	MW	Yes	Yes	No	No	None
21	MW	Yes	Yes	No	No	None
22	MW	Yes	Yes	No	No	None
24	MW	Yes	Yes	No	No	None
25	MW	Yes	Yes	No	No	None
26	MW	Yes	Yes	No	No	None
27	MW	Yes	Yes	No	No	None
28	MW	Yes	Yes	No	No	None
29	MW	Yes	Yes	No	No	None
30	MW	Yes	Yes	No	No	None
31	MW	Yes	Yes	No	No	None
32	MW	Yes	Yes	No	No	None
33	MW	Yes	Yes	No	No	None
34	MW	Yes	Yes	No	No	None
35	MW	Yes	Yes	No	No	None
36	MW	Yes	Yes	No	No	None
37	MW	Yes	Yes	No	No	None
39	MW	Yes	Yes	No	No	None
41	MW	Yes	Yes	No	No	None
43	MW	Yes	Yes	No	No	None
44	MW	Yes	Yes	No	No	None
45	MW	Yes	Yes	No	No	None

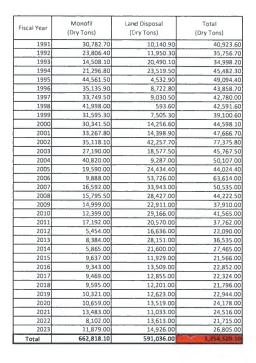


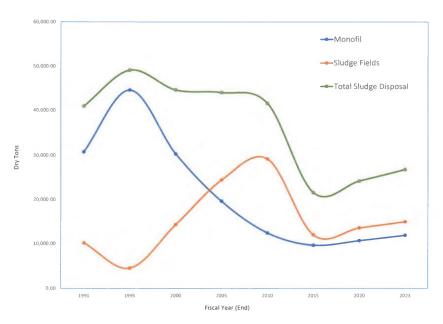
ATTACHMENT Q

SWWTP Total Sludge Disposal Graph

(Sewage Sludge Tech Report 4.0 Section 2C)

Attachment Q: Total Sludge Disposal Southside Wastewater Treatment Plant Form 10056, Page 12 of 27, Section 2C





ATTACHMENT R

TCLP Results

(Sewage Sludge Tech Report 4.0 Section 2D)

ANALYTICAL REPORT

PREPARED FOR

Attn: April Allen City of Dallas, TX 10011 Log Cabin Rd. (Admin Bldg) Dallas, Texas 75253

Generated 5/2/2024 7:48:40 PM

JOB DESCRIPTION

503s Sludge 04/10/24

JOB NUMBER

870-26091-1

urofins Dallas 9701 Harry Hines Blvd Dallas TX 75220

See page two for job notes and contact information.

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Opi du

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Authorized for release by Jodi Allen, Project Manager I Jodi Allen@et.eurofinsus.com (281)520-2865 Client: City of Dallas, TX Project/Site: 503s Sludge 04/10/24

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Definitions/Glossary

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

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Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased

H Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Metals

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

the result is reported on a dry weight basis

ference)

on, or additional Initial metals/anion analysis of the sample

y)

Level"
)
emistry)

EDL if shown)

Eurofins Dallas

Page 4 of 43

Definitions/Glossary

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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3

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J

5

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6

8

12





Case Narrative

Client: City of Dallas, TX Project: 503s Sludge 04/10/24

Job ID: 870-26091-1

Eurofins Dallas

Job ID: 870-26091-1

Job Narrative 870-26091-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
 demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
 method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 4/11/2024 3:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0°C and 5.4°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_QQQ - TCLP: The following sample was analyzed outside of analytical holding time due to missed by extractions 503s Sludge (870-26091-1).

Method 8270E_QQQ - TCLP: Six surrogates are used for this analysis. The laboratory's SOP allows one base and one acid of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 503s Sludge (870-26091-1). These results have been reported and qualified.

Method 8270E_QQQ - TCLP: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-155065 and analytical batch 860-155235 recovered outside control limits for the following analytes: 2,4-Dinitrotoluene and Nitrobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E_QQQ - TCLP: The surrogate recovery for the laboratory control sample associated with preparation batch 860-156182 and analytical batch 860-156193 was outside the upper control limits.

Method 8270E_QQQ - TCLP: The surrogate recovery for the blank associated with preparation batch 860-154682 and 860-156182 and analytical batch 860-156483 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A: press cake, weighed to 5 grams 503s Sludge (870-26091-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B - TCLP: The surrogate recovery for the blank associated with preparation batch 860-155302 and analytical batch 860-155439 was outside the lower control limits. (MB 860-155302/1-A)

Method 8081B - TCLP: The surrogate recovery for the blank associated with preparation batch 860-155302 and analytical batch 860-156200 was outside the upper control limits.

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5/2/2024

Case Narrative

Client: City of Dallas, TX Project: 503s Sludge 04/10/24

Eurofins Dallas

Job ID: 870-26091-1

Job ID: 870-26091-1 (Continued)

Method 8081B - TCLP: The DCB (Decachlorobiphenyl) surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column: (MB 860-156593/1-A). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8081B - TCLP: The following sample was re-prepared outside of preparation holding time due to initial extraction surrogate recovery was out of the control limits (low biased): 503s Sludge (870-26091-1).

Method 8081B - TCLP: Surrogate recovery for the following sample was outside control limits: 503s Sludge (870-26091-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method 8081B - TCLP: Surrogate recovery for the following sample was outside control limits: 503s Sludge (870-26091-1). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 350.1: Elevated reporting limits are provided for the following sample due to insufficient sample provided for ammonia analysis: 503s Sludge (870-26091-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Client Sample ID: 503s Sludge

Date Collected: 04/10/24 11:00 Date Received: 04/11/24 15:10 Job ID: 870-26091-1

Lab Sample ID: 870-26091-1

Matrix: Other Solid Sample

Benzene	Method: SW846 8260C - Vo	_	-	-		Unit		Dronered	Anahand	Dil Fan
Carbon tetrachloride	Analyte			RL			D	Prepared	Analyzed	Dil Fac
Chlorobanzene			_			-				50
Chloroform						_				50
1,2-Dichloroethane						_				50
1.1-Dichloroethene						-				50
Prepared Presented Prese	,					-				50
Companies Comp	,					•				50
Trichloroethene			_							50
Surrogate						-				50
Surrogate %Recover Qualifier Limits Feparet Analyzed Differential 1.2-Dichloroethane-d4 (Surr) 102 63.144 Fermiolitorobenzene (Surr) 102 74.124 Femolitorobenzene (Surr) 102 74.124 Femolitorobenzene (Surr) 102 74.124 Femolitorobenzene (Surr) 102 75.131 Femolitorobenzene (Surr) 101 80.120 Femolitorobenzene Result Qualifier RL MOL Unit Differential Preparet Analyzed Differential Differential Preparet Analyzed Differential Di			_							50
1,2-Dichloroethane-d4 (Surr)	Vinyl chloride	<0.0214	U	0.100	0.0214	mg/L			04/16/24 07:38	50
A-Bromofilorobenzene (Surr) 102 74 - 124	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofiluoromethane (Surr) 100 75.131 80-120	1,2-Dichloroethane-d4 (Surr)	102		63 - 144					04/16/24 07:38	50
Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Oli Oli Analyzed Oli	4-Bromofluorobenzene (Surr)	102		74 - 124					04/16/24 07:38	50
Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dit DIT 1,4-Dichlorobenzene <0.779 UH	Dibromofluoromethane (Surr)	100		75 - 131					04/16/24 07:38	50
Analyse Result Qualifier RL MDL Unit D Prepared Analyzed DII 1,4-Dichlorobenzene <0.779	Toluene-d8 (Surr)	101		80 - 120					04/16/24 07:38	50
Analyse Result Qualifier RL MDL Unit D Prepared Analyzed DII 1,4-Dichlorobenzene <0.779	Method: SW846 8270E - Se	emivolatile Org	anic Comi	oounds (GC	C/MS) - TO	LP				
2,4,5-Trichlorophenol <1.43 U H 5.71 1.43 ug/L 04/24/24 10:27 04/24/24 17:30 04/24/24 17:30 2,4,6-Trichlorophenol <2.35		_					D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	1,4-Dichlorobenzene	< 0.779	UH	5.71	0.779	ug/L		04/24/24 10:27	04/24/24 17:30	10
2,4-Dinitrotoluene	2,4,5-Trichlorophenol	<1.43	UН	5.71	1.43	ug/L		04/24/24 10:27	04/24/24 17:30	10
2-Methylphenol	2,4,6-Trichtorophenol	<2.31	UH	5.71	2.31	ug/L		04/24/24 10:27	04/24/24 17:30	10
2-Methylphenol	2,4-Dinitrotoluene	<2.05	UН	5.71				04/24/24 10:27	04/24/24 17:30	10
3 & 4 Methylphenol	2-Methylphenol	<1.05	UН	5.71				04/24/24 10:27	04/24/24 17:30	10
Hexachlorobenzene		<1.39	UH	5.71				04/24/24 10:27	04/24/24 17:30	10
Hexachlorobutadiene		< 0.975	UH	5.71		-		04/24/24 10:27	04/24/24 17:30	10
Hexachloroethane						-				10
Nitrobenzene						-				1(
Pentachlorophenol						-				10
Pyridine										10
2,4,6-Tribromophenol (Surr) 110 35-130 04/24/24 10:27 04/24/24 17:30 2-Fluorophenol (Surr) 93 19-120 04/24/24 10:27 04/24/24 17:30 2-Fluorobiphenyl 67 43-130 04/24/24 10:27 04/24/24 17:30 Nitrobenzene-d5 (Surr) 136 S1+ 37-133 04/24/24 10:27 04/24/24 17:30 Phenol-d5 (Surr) 58 8-124 04/24/24 10:27 04/24/24 17:30 p-Terphenyl-d14 (Surr) 73 47-130 04/24/24 10:27 04/24/24 17:30 Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202	· ·					-				10
2,4,6-Tribromophenol (Surr) 110 35-130 04/24/24 10:27 04/24/24 17:30 2-Fluorophenol (Surr) 93 19-120 04/24/24 10:27 04/24/24 17:30 2-Fluorobiphenyl 67 43-130 04/24/24 10:27 04/24/24 17:30 Nitrobenzene-d5 (Surr) 136 S1+ 37-133 04/24/24 10:27 04/24/24 17:30 Phenol-d5 (Surr) 58 8-124 04/24/24 10:27 04/24/24 17:30 p-Terphenyl-d14 (Surr) 73 47-130 04/24/24 10:27 04/24/24 17:30 Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202	Surrogata	% Pacayon	Qualifier	Limite				Propored	Anglygad	Dil Fa
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2-Fluorobiphenyl 67 43 - 130 04/24/24 10:27 04/24/24 17:30 Nitrobenzene-d5 (Surr) 136 S1+ 37 - 133 04/24/24 10:27 04/24/24 17:30 Phenol-d5 (Surr) 58 8 - 124 04/24/24 10:27 04/24/24 17:30 p-Terphenyl-d14 (Surr) 73 47 - 130 04/24/24 10:27 04/24/24 17:30 O4/24/24 10:27 04/24/24 17:30 Phenol-d5 (SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202 U 0.00103 0.000202 mg/L 04/17/24 17:04 04/18/24 20:07 Pendin <0.0000171 U 0.0000517 0.0000171 mg/L 04/17/24 17:04 04/18/24 20:07 Pendin Summa-BHC (Lindane) <0.0000175 U 0.0000517 0.0000175 mg/L 04/17/24 17:04 04/18/24 20:07 Pendin Pesticides (O.0000188 U 0.0000517 0.0000188 mg/L 04/17/24 17:04 04/18/24 20:07 Pendin Pertachlor Pendide	· · · · ·									10
Nitrobenzene-d5 (Surr) 136 S1+ 37 - 133 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30	, , ,									10
Phenol-d5 (Surr) 58 8 - 124 04/24/24 10:27 04/24/24 17:30 04/24/24 10:27 04/24/24 17:30 Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202	· ·	_	04.							
Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared O4/17/24 17:04 Analyzed O4/18/24 20:07 Dil Chlorodane <0.000202 U 0.0000171 U 0.0000517 0.0000171 mg/L gamma-BHC (Lindane)	` '									11
Method: SW846 8081B - Organochlorine Pesticides (GC) - TCLP Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202										11
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Chlorodane <0.000202								- 1121121 10.21		,
Chlorodane <0.000202 U 0.00103 0.000202 mg/L 04/17/24 17:04 04/18/24 20:07 Endrin <0.0000171		•		, ,		Unit	0	Prenared	Analyzed	Dil Fa
Endrin <0.0000171 U 0.0000517 0.0000171 mg/L 04/17/24 17:04 04/18/24 20:07 gamma-BHC (Lindane) <0.0000175							J			Dirra
gamma-BHC (Lindane) <0.0000175 U										
Heptachlor <0.0000180 U 0.0000517 0.0000180 mg/L 04/17/24 17:04 04/18/24 20:07 Heptachlor epoxide <0.0000188						_				
Heptachlor epoxide <0.0000188 U 0.0000517 0.0000188 mg/L 04/17/24 17:04 04/18/24 20:07	,					-				
						_				
Methoxychlor <0.0000192 U 0.0000517 0.0000192 mg/L 04/17/24 17:04 04/18/24 20:07						-				
Toxaphene <0.000328 U 0.00103 0.000328 mg/L 04/17/24 17:04 04/18/24 20:07	•					-				

Eurofins Dallas

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Client Sample Results

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Client Sample ID: 503s Sludge

Date Collected: 04/10/24 11:00 Date Received: 04/11/24 15:10

Job ID: 870-26091-1

Lab Sample ID: 870-26091-1
Matrix: Other Solid Sample

Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)		S1-	28 - 94					04/18/24 20:07	1
Tetrachioro-m-xylene	35	S1-	52 - 134				04/17/24 17:04	04/18/24 20:07	1
Method: SW846 8082A -			(PCBs) by	Gas Chro	matogra	phy			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<23.9	U	101	23.9	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1221	<23.9	U	101	23.9	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1232	<23.9	U	101	23.9	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1242	<23.9	U	101	23.9	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1248	<23.9	U	101	23.9	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1254	<15.7	U	101	15.7	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
PCB-1260	<15.7	U	101	15.7	ug/Kg		04/15/24 13:17	04/19/24 10:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachioro-m-xylene	80		35 - 140				04/15/24 13:17	04/19/24 10:45	1
DCB Decachlorobiphenyl (Surr)	111		37 - 142				04/15/24 13:17	04/19/24 10:45	1
Method: SW846 8151A -	Herbicides (GC)	- TCLP							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	< 0.000153	U	0.000197	0.000153	mg/L		04/16/24 08:01	04/21/24 04:07	1
2,4,5-TP (Silvex)	<0.0000394	U	0.000197	0.0000394	mg/L		04/16/24 08:01	04/21/24 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	104		42 - 150					04/21/24 04:07	1
Method: SW846 9056A -	Anione Ion Chro	matogran	hv						
Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1510	quamor	994		ug/Kg			05/01/24 06:05	1
Nitrite as N	3970		994		ug/Kg			05/01/24 06:05	1
Nitrate Nitrite as N	5.48		0.994		mg/Kg			05/01/24 06:05	1
Method: SW846 6010C - Analyte		LP Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0325		0.0500	0.0325				04/15/24 13:49	1
Barium	0.0515	Ü	0.0500	0.00625	_			04/15/24 13:49	1
Cadmium	<0.00416	U	0.0250	0.00416	_			04/15/24 13:49	1
Chromium	<0.0108		0.0500	0.0108				04/15/24 13:49	1
Lead	<0.0184		0.0500	0.0184	_			04/15/24 13:49	1
Selenium	< 0.0464		0.150	0.0464	_			04/15/24 13:49	1
Silver	<0.0186		0.100	0.0186	_			04/15/24 13:49	1
					Ü				
Method: SW846 7470A -	* '	- TCLP Qualifier	RL	BADI	Unit	D	Propored	Analyzed	Dil Fac
Analyte Mercury	<0.0000706		0.000200	0.0000706		D	Prepared 04/15/24 22:05	Analyzed 04/16/24 15:01	Dii Fac
					_				
Method: SW846 7471B -		0 -110			11.4	_	D	A 1	DU =-
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0383		0.0185	0.00829	mg/Kg		04/18/24 03:23	04/18/24 19:00	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	1940000		100000	26700	ug/Kg		04/17/24 09:53	04/17/24 13:33	100

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Client Sample Results

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Client Sample ID: 503s Sludge

Date Collected: 04/10/24 11:00 Date Received: 04/11/24 15:10

Job ID: 870-26091-1

Lab Sample ID: 870-26091-1 Matrix: Other Solid Sample

General Chemistry (Continued)

Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed Nitrogen, Kjeldahl (EPA 351.2) 7290000 392000 193000 ug/Kg 04/19/24 23:22 04/23/24 19:57

Action Limit Summary

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Client Sample ID: 503s Sludge

Lab Sample ID: 870-26091-1

Job ID: 870-26091-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	Limit	RL	Method	Prep Type
2,4,6-Trichlorophenol	<2.31	UH	ug/L	10	5.71	8270E	TCLP
2,4-Dinitrotoluene	<2.05	UH	ug/L	10	5.71	8270E	TCLP
3 & 4 Methylphenol	<1.39	UH	ug/L	10	5.71	8270E	TCLP
Hexachlorobenzene	< 0.975	UH	ug/L	5	5.71	8270E	TCLP
Hexachlorobutadiene	<1.03	UН	ug/L	10	5.71	8270E	TCLP
Hexachloroethane	<1.02	UH	ug/L	20	5.71	8270E	TCLP
Nitrobenzene	< 0.736	UН	ug/L	10	5.71	8270E	TCLP
Pentachlorophenol	<10.4	UН	ug/L	10	11.4	8270E	TCLP







Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 8260C - Volatile Organic Compounds by GC/MS

Prep Type: TCLP Matrix: Other Solid Sample

Percent	Surrogate	Recovery	(Acceptance	l imits)
reiteill	Surroyate	Recovery	Acceptance	Limits

DCA **BFB DBFM** TOL (63-144)(74-124)(75-131)(80-120)Lab Sample ID Client Sample ID 870-26091-1 503s Sludge 102 102 100 101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) DCA BFB **DBFM** TOL (63-144) (74-124)(75-131)(80-120)Lab Sample ID Client Sample ID LCS 860-154933/3 Lab Control Sample 100 97 LCSD 860-154933/4 Lab Control Sample Dup 97 102 102 100 MB 860-154933/10 Method Blank 102 102 100 100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Other Solid Sample Prep Type: TCLP

			Pe	ercent Surre	ogate Recov	very (Acce	ptance Limits)	
		TBP	2FP	TPHd14				
Lab Sample ID	Client Sample ID	(35-130)	(19-120)	(43-130)	(37-133)	(8-124)	(47-130)	
870-26091-1	503s Sludge	110	93	67	136 S1+	58	73	

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: Total/NA

			Pe	ercent Surre	ogate Recov	ery (Acce	eptance Limits	
		TBP	2FP	FBP	NBZ	PHL	TPHd14	
Lab Sample ID	Client Sample ID	(35-130)	(19-120)	(43-130)	(37-133)	(8-124)	(47-130)	
LCS 860-156182/2-A	Lab Control Sample	130	90	108	134 S1+	63	97	
LCSD 860-155065/3-A	Lab Control Sample Dup	115	68	90	122	38	67	
LCSD 860-156182/3-A	Lab Control Sample Dup	124	89	108	133	64	99	
MB 860-155065/1-A	Method Blank	121	53	95	117	27	76	
MB 860-156182/1-A	Method Blank	115	85	107	128	55	105	

Surrogate Legend

Eurofins Dallas

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24 TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr) FBP = 2-Fluorobiphenyl NBZ = Nitrobenzene-d5 (Surr) PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid Prep Type: TCLP

			Pe	Percent Surrogate Recovery (Acceptance Limit								
		TBP	2FP	FBP	NBZ	PHL	TPHd14					
Lab Sample ID	Client Sample ID	(35-130)	(19-120)	(43-130)	(37-133)	(8-124)	(47-130)					
LB 860-154682/1-E	Method Blank	102	72	89	114	68	81					
LB 860-154682/1-I	Method Blank	107	92	119	134 S1+	75	100					

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Other Solid Sample Prep Type: TCLP

				Percent Surrogate Recovery (Acceptance Limits)
		DCB2	TCX2	
Lab Sample ID	Client Sample ID	(28-94)	(52-134)

870-26091-1 503s Sludge 16 S1-35 S1-

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCB2 (28-94)	TCX2 (52-134)				
LCS 860-155302/2-A	Lab Control Sample	65	76				
_CS 860-156593/2-A	Lab Control Sample	80	89				
_CSD 860-155302/3-A	Lab Control Sample Dup	68	77				
CSD 860-156593/3-A	Lab Control Sample Dup	77	85				
MB 860-155302/1-A	Method Blank	43	38 S1-				

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX2	
Lab Sample ID	Client Sample ID	(28-94)	(52-134)	
MB 860-156593/1-A	Method Blank	67	91	

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Prep Type: TCLP Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits)

DCB₂ TCX2 (52-134)(28-94)Lab Sample ID Client Sample ID LB 860-154682/1-F Method Blank 61 87 LB 860-154682/1-J Method Blank 84 94

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Other Solid Sample Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

TCX1 DCB₁ (35-140)(37-142)Lab Sample ID Client Sample ID 870-26091-1 503s Sludge 80 111

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) DCB1 TCX1

Lab Sample ID Client Sample ID (35-140)(37-142)LCS 860-154853/20-A Lab Control Sample 98 113 LCSD 860-154853/21-A Lab Control Sample Dup 99 113 MB 860-154853/1-A Method Blank 97 111

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Other Solid Sample **Prep Type: TCLP**

Percent Surrogate Recovery (Acceptance Limits)

DCPAA1 Lab Sample ID Client Sample ID (42-150)870-26091-1 503s Sludge 104

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 8151A - Herbicides (GC)

Matrix: Solid Prep Type: Total/NA

Percent Surrogate	Recovery	(Acceptance Limits)
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		DCPAA1
Lab Sample ID	Client Sample ID	(42-150)
LCS 860-154991/2-A	Lab Control Sample	140
LCSD 860-154991/3-A	Lab Control Sample Dup	144
MB 860-154991/1-A	Method Blank	111

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Solid Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

		DCPAA1
Lab Sample ID	Client Sample ID	(42-150)
LB 860-154682/1-G	Method Blank	97

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid



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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-154933/10

Matrix: Solid

Analysis Batch: 154933

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.000460	U	0.00100	0.000460	mg/L			04/16/24 01:07	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			04/16/24 01:07	1
Chlorobenzene	< 0.000455	U	0.00100	0.000455	mg/L			04/16/24 01:07	1
Chloroform	< 0.000464	U	0.00100	0.000464	mg/L			04/16/24 01:07	1
1,2-Dichloroethane	< 0.000372	U	0.00100	0.000372	mg/L			04/16/24 01:07	1
1,1-Dichloroethene	< 0.000738	U	0.00100	0.000738	mg/L			04/16/24 01:07	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			04/16/24 01:07	1
Tetrachloroethene	< 0.000655	U	0.00100	0.000655	mg/L			04/16/24 01:07	1
Trichloroethene	< 0.00150	U	0.00500	0.00150	mg/L			04/16/24 01:07	1
Vinyl chloride	< 0.000428	U	0.00200	0.000428	mg/L			04/16/24 01:07	1

MB MB Limits Analyzed Dil Fac %Recovery Qualifier Prepared Surrogate 1,2-Dichloroethane-d4 (Surr) 63 - 144 04/16/24 01:07 102 74-124 04/16/24 01:07 4-Bromofluorobenzene (Surr) 102 Dibromofluoromethane (Surr) 100 75-131 04/16/24 01:07 Toluene-d8 (Surr) 100 80 - 120 04/16/24 01:07

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 860-154933/3 Prep Type: Total/NA Matrix: Solid

Analysis Batch: 154933

LCS LCS %Rec Spike Added Result Qualifier Unit %Rec Limits **Analyte** 0.0500 0.05862 75 - 125 Benzene mg/L 117 0.0500 0.06085 70 - 125 mg/L 122 Carbon tetrachloride Chlorobenzene 0.0500 0.05683 mg/L 114 82 - 135 0.05858 70 - 121 Chloroform 0.0500 mg/L 117 109 72 - 130 0.0500 0.05436 1,2-Dichloroethane mg/L 50 - 150 1,1-Dichloroethene 0.0500 0.05549 mg/L 111 0.250 0.2552 102 60 - 1402-Butanone mg/L 71 - 125 Tetrachloroethene 0.0500 0.05859 117 mg/L 75 - 135 Trichloroethene 0.0500 0.05619 mg/L 112 Vinyl chloride 0.0500 0.05491 mg/L 110 60 - 140

LCS LCS %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 97 63-144 4-Bromofluorobenzene (Surr) 98 74-124 75-131 Dibromofluoromethane (Surr) 100 Toluene-d8 (Surr) 99 80 - 120

Lab Sample ID: LCSD 860-154933/4 Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA

Analysis Batch: 154933

Title Date in To Too	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.05497	mg/L		110	75 - 125	6	25
Carbon tetrachloride	0.0500	0.05634	mg/L		113	70 - 125	8	25
Chlorobenzene	0.0500	0.05523	mg/L		110	82 - 135	3	25
Chloroform	0.0500	0.05519	mg/L		110	70 - 121	6	25

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-154933/4

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 154933

	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit D	%Rec	Limits	RPD	Limit
1,2-Dichloroethane	0.0500	0.05128	mg/L	103	72 - 130	6	25
1,1-Dichloroethene	0.0500	0.05028	mg/L	101	50 - 150	10	25
2-Butanone	0.250	0.2313	mg/L	93	60 - 140	10	25
Tetrachloroethene	0.0500	0.05537	mg/L	111	71 - 125	6	25
Trichloroethene	0.0500	0.05243	mg/L	105	75 - 135	7	25
Vinyl chloride	0.0500	0.05002	mg/L	100	60 - 140	9	25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-155065/1-A

Matrix: Solid

Analysis Batch: 155235

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155065

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1,4-Dichlorobenzene	< 0.0779	U	0.571	0.0779	ug/L		04/16/24 12:20	04/17/24 12:33	1
	2,4,5-Trichlorophenol	< 0.143	U	0.571	0.143	ug/L		04/16/24 12:20	04/17/24 12:33	1
	2,4,6-Trichlorophenol	< 0.231	U	0.571	0.231	ug/L		04/16/24 12:20	04/17/24 12:33	1
-1	2,4-Dinitrotoluene	< 0.205	U	0.571	0.205	ug/L		04/16/24 12:20	04/17/24 12:33	1
	2-Methylphenol	< 0.105	U	0.571	0.105	ug/L		04/16/24 12:20	04/17/24 12:33	1
	3 & 4 Methylphenol	< 0.139	U	0.571	0.139	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Hexachlorobenzene	< 0.0975	U	0.571	0.0975	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Hexachlorobutadiene	< 0.103	U	0.571	0.103	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Hexachloroethane	< 0.102	U	0.571	0.102	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Nitrobenzene	< 0.0736	U	0.571	0.0736	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		04/16/24 12:20	04/17/24 12:33	1
	Pyridine	<1.44	U	2.86	1.44	ug/L		04/16/24 12:20	04/17/24 12:33	1

ИВ	MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	121	35 - 130	04/16/24 12:20	04/17/24 12:33	1
2-Fluorophenol (Surr)	53	19 - 120	04/16/24 12:20	04/17/24 12:33	1
2-Fluorobiphenyl	95	43 - 130	04/16/24 12:20	04/17/24 12:33	1
Nitrobenzene-d5 (Surr)	117	37 - 133	04/16/24 12:20	04/17/24 12:33	1
Phenol-d5 (Surr)	27	8 - 124	04/16/24 12:20	04/17/24 12:33	1
p-Terphenyl-d14 (Surr)	76	47 - 130	04/16/24 12:20	04/17/24 12:33	1

Lab Sample ID: LCSD 860-155065/3-A

Matrix: Solid

Analysis Batch: 155235

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 155065

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1,4-Dichlorobenzene 2.86 2.523 88 28 - 130 16 30 ug/L 2,4,5-Trichlorophenol 2.86 3.447 121 35 - 130 30 ug/L

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-155065/3-A

Matrix: Solid

Analysis Batch: 155235

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 155065

rinary ele Datein recours							op = 0		, , , , ,
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2,4,6-Trichlorophenol	2.86	2.980		ug/L		104	52 - 129	12	30
2,4-Dinitrotoluene	2.86	3.690	*+	ug/L		129	48 - 127	7	30
2-Methylphenol	2.86	1.900		ug/L		66	14 - 176	12	30
3 & 4 Methylphenol	2.86	1.901		ug/L		67	22 - 130	11	30
Hexachlorobenzene	2.86	2.632		ug/L		92	8 - 142	4	30
Hexachlorobutadiene	2.86	1.610		ug/L		56	10 - 130	12	30
Hexachloroethane	2.86	2.024		ug/L		71	10 - 130	17	30
Nitrobenzene	2.86	4.158	*+	ug/L		146	54 - 130	9	30
Pentachlorophenol	2.86	3.656		ua/L		128	38 - 152	11	30

<1.44 U

ug/L

2.86

LCSD LCSD

MB MB

55

105

Surrogate		%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)		115		35 - 130
2-Fluorophenol (Surr)		68		19 - 120
2-Fluorobiphenyl		90		43 - 130
Nitrobenzene-d5 (Surr)	4	122		37 - 133
Phenol-d5 (Surr)		38		8-124
p-Terphenyl-d14 (Surr)		67		47 - 130

Lab Sample ID: MB 860-156182/1-A

Matrix: Solid

Phenol-d5 (Surr)

p-Terphenyl-d14 (Surr)

Pyridine

Analysis Batch: 156193

Client Sample ID: Method Blank Prep Type: Total/NA

1 - 126

Prep Batch: 156182

6

Analyte	Result	Qualifier	RL.	MDL.	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	< 0.0779	U	0.571	0.0779	ug/L		04/23/24 08:00	04/23/24 10:24	1
2,4,5-Trichlorophenol	< 0.143	U	0.571	0.143	ug/L		04/23/24 08:00	04/23/24 10:24	1
2,4,6-Trichlorophenol	< 0.231	U	0.571	0.231	ug/L		04/23/24 08:00	04/23/24 10:24	1
2,4-Dinitrotoluene	< 0.205	U	0.571	0.205	ug/L		04/23/24 08:00	04/23/24 10:24	1
2-Methylphenol	< 0.105	U	0.571	0.105	ug/L		04/23/24 08:00	04/23/24 10:24	1
3 & 4 Methylphenol	< 0.139	U	0.571	0.139	ug/L		04/23/24 08:00	04/23/24 10:24	1
Hexachlorobenzene	< 0.0975	U	0.571	0.0975	ug/L		04/23/24 08:00	04/23/24 10:24	1
Hexachlorobutadiene	< 0.103	U	0.571	0.103	ug/L		04/23/24 08:00	04/23/24 10:24	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		04/23/24 08:00	04/23/24 10:24	1
Nitrobenzene	< 0.0736	U	0.571	0.0736	ug/L		04/23/24 08:00	04/23/24 10:24	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		04/23/24 08:00	04/23/24 10:24	1
Pyridine	<1.44	U	2.86	1.44	ug/L		04/23/24 08:00	04/23/24 10:24	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	115		35 - 130				04/23/24 08:00	04/23/24 10:24	1
2-Fluorophenol (Surr)	85		19 - 120				04/23/24 08:00	04/23/24 10:24	1
2-Fluorobiphenyl	107		43 - 130				04/23/24 08:00	04/23/24 10:24	1
Nitrobenzene-d5 (Surr)	128		37 - 133				04/23/24 08:00	04/23/24 10:24	1

04/23/24 08:00 04/23/24 10:24

04/23/24 08:00 04/23/24 10:24

8-124

47 - 130

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-156182/2-A

Matrix: Solid

Analysis Batch: 156193

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 156182

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
1,4-Dichlorobenzene	2.86	1.200		ug/L		42	28 - 130	
2,4,5-Trichlorophenol	2.86	3.036		ug/L		106	35 - 130	
2,4,6-Trichlorophenol	2.86	2.656		ug/L		93	52 - 129	
2,4-Dinitrotoluene	2.86	3.305		ug/L		116	48 - 127	
2-Methylphenol	2.86	2.565		ug/L		90	14 - 176	
3 & 4 Methylphenol	2.86	2.232		ug/L		78	22 - 130	
Hexachlorobenzene	2.86	2.782		ug/L		97	8 - 142	
Hexachlorobutadiene	2.86	0.4210	J	ug/L		15	10 - 130	
Hexachloroethane	2.86	0.6310		ug/L		22	10 - 130	
Nitrobenzene	2.86	3.105		ug/L		109	54 - 130	
Pentachlorophenol	2.86	3.863		ug/L		135	38 - 152	
Pyridine	2.86	<1.44 \	U	ug/L		33	1 - 126	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	130		35 - 130
2-Fluorophenol (Surr)	90		19-120
2-Fluorobiphenyl	108		43 - 130
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133
Phenol-d5 (Surr)	63		8 - 124
p-Terphenyl-d14 (Surr)	97		47 - 130

Lab Sample ID: LCSD 860-156182/3-A

Matrix: Solid

Analysis Batch: 156193

Client Sample	ID:	Lab	Control	Sample	Dup
			Dron To	mar Tota	I/NI A

Prep Type: Total/NA

Prep Batch: 156182

Timely cit mutation is a city										
•	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dichlorobenzene	2.86	1.323		ug/L		46	28 - 130	10	30	
2,4,5-Trichlorophenol	2.86	3.039		ug/L		106	35 - 130	0	30	
2,4,6-Trichlorophenol	2.86	2.984		ug/L		104	52 - 129	12	30	
2,4-Dinitrotoluene	2.86	3.473		ug/L		122	48 - 127	5	30	
2-Methylphenol	2.86	2.602		ug/L		91	14 - 176	1	30	
3 & 4 Methylphenol	2.86	2.313		ug/L		81	22 - 130	4	30	
Hexachlorobenzene	2.86	2.949		ug/L		103	8 - 142	6	30	
Hexachlorobutadiene	2.86	0.5446	J	ug/L		19	10 - 130	26	30	
Hexachloroethane	2.86	0.7653		ug/L		27	10 - 130	19	30	
Nitrobenzene	2.86	3.376		ug/L		118	54 - 130	8	30	
Pentachlorophenol	2.86	3.839		ug/L		134	38 - 152	1	30	
Pyridine	2.86	<1.44	U	ug/L		33	1 - 126	2	30	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	124		35 - 130
2-Fluorophenol (Surr)	89		19 - 120
2-Fluorobiphenyl	108		43 - 130
Nitrobenzene-d5 (Surr)	133		37 - 133
Phenol-d5 (Surr)	64		8 - 124
p-Terphenyl-d14 (Surr)	99		47 - 130

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RL

0.571

0.571

0.571

0.571

0.571

0.571

0.571

MDL Unit

0.0779 ug/L

0.143 ug/L

0.231 ug/L

0.205 ug/L

0.105 ug/L

0.139 ug/L

0.0975 ug/L

Client: City of Dallas, TX

Analysis Batch: 155235

Matrix: Solid

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dinitrotoluene

3 & 4 Methylphenol

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Nitrobenzene

Pyridine

2-Methylphenol

Analyte

Project/Site: 503s Sludge 04/10/24

Lab Sample ID: LB 860-154682/1-E

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

LB LB

<0.0779 U

<0.143 U

<0.231 U

<0.205 U

<0.105 U

<0.139 U

<0.0975 U

<0.103 U

<0.102 U <0.0736 U

Result Qualifier

Client Sample ID: Method Blank Prep Type: TCLP

Prep Batch: 155065

Job ID: 870-26091-1

		riep batcii.	100000
D	Prepared	Analyzed	Dil Fac
	04/16/24 12:23	04/17/24 15:57	1
	04/16/24 12:23	04/17/24 15:57	1
	04/16/24 12:23	04/17/24 15:57	1
	04/16/24 12:23	04/17/24 15:57	1

04/16/24 12:23 04/17/24 15:57

04/16/24 12:23 04/17/24 15:57

04/16/24 12:23 04/17/24 15:57

0.571	0.103	ug/L	04/16/24 12:23	04/17/24 15:57	
0.571	0.102	ug/L	04/16/24 12:23	04/17/24 15:57	
0.571	0.0736	ug/L	04/16/24 12:23	04/17/24 15:57	
1.14	1.04	ug/L	04/16/24 12:23	04/17/24 15:57	

<1.04 U Pentachlorophenol 2.86 04/16/24 12:23 04/17/24 15:57 <1.44 U 1.44 ug/L

	LB i	LB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	102		35 - 130	04/16/24 12:23	04/17/24 15:57	1
2-Fluorophenol (Surr)	72		19-120	04/16/24 12:23	04/17/24 15:57	1
2-Fluorobiphenyl	89		43 - 130	04/16/24 12:23	04/17/24 15:57	1
Nitrobenzene-d5 (Surr)	114		37 - 133	04/16/24 12:23	04/17/24 15:57	1
Phenol-d5 (Surr)	68		8 - 124	04/16/24 12:23	04/17/24 15:57	1
p-Terphenyl-d14 (Surr)	81		47 - 130	04/16/24 12:23	04/17/24 15:57	1

Lab Sample ID: LB 860-154682/1-I

Matrix: Solid

Analysis Batch: 156483

Client Sample ID: Method Blank **Prep Type: TCLP**

Prep Batch: 156182

	LB	LB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	< 0.0779	U	0.571	0.0779	ug/L		04/24/24 10:27	04/24/24 12:54	1
2,4,5-Trichlorophenol	< 0.143	U	0.571	0.143	ug/L		04/24/24 10:27	04/24/24 12:54	1
2,4,6-Trichlorophenol	< 0.231	U	0.571	0.231	ug/L		04/24/24 10:27	04/24/24 12:54	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		04/24/24 10:27	04/24/24 12:54	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		04/24/24 10:27	04/24/24 12:54	1
3 & 4 Methylphenol	< 0.139	U	0.571	0.139	ug/L		04/24/24 10:27	04/24/24 12:54	1
Hexachlorobenzene	< 0.0975	U	0.571	0.0975	ug/L		04/24/24 10:27	04/24/24 12:54	1
Hexachlorobutadiene	< 0.103	U	0.571	0.103	ug/L		04/24/24 10:27	04/24/24 12:54	1
Hexachloroethane	< 0.102	U	0.571	0.102	ug/L		04/24/24 10:27	04/24/24 12:54	1
Nitrobenzene	< 0.0736	U	0.571	0.0736	ug/L		04/24/24 10:27	04/24/24 12:54	1
Pentachiorophenol	<1.04	U	1.14	1.04	ug/L		04/24/24 10:27	04/24/24 12:54	1
Pyridine	<1.44	U	2.86	1.44	ug/L		04/24/24 10:27	04/24/24 12:54	1

	LB	LB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	107		35 - 130	04/24/24 10:27	04/24/24 12:54	1
2-Fluorophenol (Surr)	92		19 - 120	04/24/24 10:27	04/24/24 12:54	1
2-Fluorobiphenyl	119		43 - 130	04/24/24 10:27	04/24/24 12:54	1
Nitrobenzene-d5 (Surr)	134	S1+	37 - 133	04/24/24 10:27	04/24/24 12:54	1
Phenol-d5 (Surr)	75		8 - 124	04/24/24 10:27	04/24/24 12:54	1
p-Terphenyl-d14 (Surr)	100		47 - 130	04/24/24 10:27	04/24/24 12:54	1

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-155302/1-A

Matrix: Solid

Analysis Batch: 156200

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 155302

Job ID: 870-26091-1

-	MB	MB						Ť	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	< 0.000205	U	0.00105	0.000205	mg/L		04/17/24 13:33	04/23/24 13:33	1
Endrin	< 0.0000174	U	0.0000524	0.0000174	mg/L		04/17/24 13:33	04/23/24 13:33	1
gamma-BHC (Lindane)	<0.0000178	U	0.0000524	0.0000178	mg/L		04/17/24 13:33	04/23/24 13:33	1
Heptachlor	< 0.0000183	U	0.0000524	0.0000183	mg/L		04/17/24 13:33	04/23/24 13:33	1
Heptachlor epoxide	< 0.0000191	U	0.0000524	0.0000191	mg/L		04/17/24 13:33	04/23/24 13:33	1
Methoxychlor	< 0.0000195	U	0.0000524	0.0000195	mg/L		04/17/24 13:33	04/23/24 13:33	1
Toxaphene	<0.000333	U	0.00105	0.000333	mg/L		04/17/24 13:33	04/23/24 13:33	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	43	28 - 94	04/17/24 13:33	04/23/24 13:33	1
Tetrachloro-m-xylene	38 S1-	52 - 134	04/17/24 13:33	04/23/24 13:33	1

105 105

Lab Sample ID: LCS 860-155302/2-A

Matrix: Solid

Analysis Batch: 155439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155302 % Pac

	Opino	200					/01100
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Endrin	0.00131	0.001140		mg/L		87	55 - 102
gamma-BHC (Lindane)	0.00131	0.001073		mg/L		82	59 - 107
Heptachlor	0.00131	0.001129		mg/L		86	55 - 106
Heptachlor epoxide	0.00131	0.001063		mg/L		81	56 - 109
Methoxychlor	0.00131	0.001088		mg/L		83	53 - 102

Cnika

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	65		28 - 94
Tetrachloro-m-xylene	76		52 - 134

Lab Sample ID: LCSD 860-155302/3-A

Matrix: Solid

Analysis Batch: 155439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 155302

	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	RPD	Limit
Endrin	0.00130	0.001146	mg/L	88	55 - 102	1	25
gamma-BHC (Lindane)	0.00130	0.001080	mg/L	83	59 - 107	1	25
Heptachlor	0.00130	0.001138	mg/L	88	55 - 106	1	25
Heptachlor epoxide	0.00130	0.001067	mg/L	82	56 - 109	0	25
Methoxychlor	0.00130	0.001107	mg/L	85	53 - 102	2	25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	68		28 - 94
Tetrachloro-m-xylene	77		52 - 134

Lab Sample ID: MB 860-156593/1-A

Matrix: Solid

Analysis Batch: 156738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 156593

MB MB

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Chlorodane <0.000206 U 0.00105 0.000206 mg/L 04/24/24 13:34 04/25/24 13:00

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-156593/1-A Matrix: Solid

Analysis Batch: 156738

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 156593

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	<0.0000175	U	0.0000527	0.0000175	mg/L		04/24/24 13:34	04/25/24 13:00	1
gamma-BHC (Lindane)	< 0.0000179	U	0.0000527	0.0000179	mg/L		04/24/24 13:34	04/25/24 13:00	1
Heptachlor	< 0.0000184	U	0.0000527	0.0000184	mg/L		04/24/24 13:34	04/25/24 13:00	1
Heptachlor epoxide	< 0.0000192	U	0.0000527	0.0000192	mg/L		04/24/24 13:34	04/25/24 13:00	1
Methoxychlor	< 0.0000196	U	0.0000527	0.0000196	mg/L		04/24/24 13:34	04/25/24 13:00	1
Toxaphene	< 0.000335	U	0.00105	0.000335	mg/L		04/24/24 13:34	04/25/24 13:00	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil F
DCB Decachlorobiphenyl (Surr)	67	28 - 94	04/24/24 13:34 04	/25/24 13:00	
Tetrachloro-m-xylene	91	52 - 134	04/24/24 13:34 04	/25/24 13:00	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 156593

Lab Sample ID: LCS 860-156593/2-A Matrix: Solid

Lab Sample ID: LCSD 860-156593/3-A

Analysis Batch: 156738

Matrix: Solid

Spike LCS LCS %Rec D %Rec Analyte Added Result Qualifier Unit Limits 0.00130 55 - 102 Endrin 0.001267 mg/L 97 0.001239 59 - 107 gamma-BHC (Lindane) 0.00130 mg/L 95 Heptachlor 0.00130 0.001226 mg/L 94 55 - 106 56 - 109 Heptachlor epoxide 0.00130 0.001141 mg/L 88 53 - 102 Methoxychlor 0.00130 0.001173 mg/L 90

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		28 - 94
Tetrachloro-m-xylene	89		52 - 134

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 156593

Analysis Batch: 156738 LCSD LCSD Spike %Rec RPD D %Rec Limit Added Result Qualifier Unit Limits RPD **Analyte** Endrin 0.00128 0.001219 mg/L 95 55 - 102 25 gamma-BHC (Lindane) 0.00128 0.001192 mg/L 93 59 - 107 25 Heptachlor 0.00128 0.001191 mg/L 93 55 - 106 3 25 85 56 - 109 25 Heptachlor epoxide 0.00128 0.001097 mg/L 4 Methoxychlor 0.00128 0.001120 mg/L 87 53 - 102 25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	77		28 - 94
Tetrachloro-m-xylene	85		52 - 134

Lab Sample ID: LB 860-154682/1-F

Matrix: Solid Analysis Batch: 155439 Client Sample ID: Method Blank

Prep Type: TCLP Prep Batch: 155302

LB LB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	< 0.000201	U	0.00103	0.000201	mg/L		04/17/24 17:04	04/18/24 19:55	1
Endrin	< 0.0000171	U	0.0000514	0.0000171	mg/L		04/17/24 17:04	04/18/24 19:55	1

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LB 860-154682/1-F

Matrix: Solid

Analysis Batch: 155439

Client Sample ID: Method Blank Prep Type: TCLP

Prep Batch: 155302

•	LB	LB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	< 0.0000175	U	0.0000514	0.0000175	mg/L		04/17/24 17:04	04/18/24 19:55	1
Heptachlor	< 0.0000179	U	0.0000514	0.0000179	mg/L		04/17/24 17:04	04/18/24 19:55	1
Heptachlor epoxide	< 0.0000187	U	0.0000514	0.0000187	mg/L		04/17/24 17:04	04/18/24 19:55	1
Methoxychlor	< 0.0000191	U	0.0000514	0.0000191	mg/L		04/17/24 17:04	04/18/24 19:55	1
Toxaphene	< 0.000327	U	0.00103	0.000327	mg/L		04/17/24 17:04	04/18/24 19:55	1

LB LB

LB LB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	61	28 - 94	04/17/24 17:04	04/18/24 19:55	1
Tetrachloro-m-xylene	87	52 - 134	04/17/24 17:04	04/18/24 19:55	1

Lab Sample ID: LB 860-154682/1-J

Matrix: Solid

Analysis Batch: 156738

Client Sample ID: Method Blank

Prep Type: TCLP **Prep Batch: 156593**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodane	< 0.000205	U	0.00105	0.000205	mg/L		04/24/24 13:34	04/25/24 14:53	1
Endrin	< 0.0000174	U	0.0000524	0.0000174	mg/L		04/24/24 13:34	04/25/24 14:53	1
gamma-BHC (Lindane)	< 0.0000178	U	0.0000524	0.0000178	mg/L		04/24/24 13:34	04/25/24 14:53	1
Heptachlor	< 0.0000183	U	0.0000524	0.0000183	mg/L		04/24/24 13:34	04/25/24 14:53	1
Heptachlor epoxide	< 0.0000191	U	0.0000524	0.0000191	mg/L		04/24/24 13:34	04/25/24 14:53	1
Methoxychlor	< 0.0000195	U	0.0000524	0.0000195	mg/L		04/24/24 13:34	04/25/24 14:53	1
Toxaphene	< 0.000333	U	0.00105	0.000333	mg/L		04/24/24 13:34	04/25/24 14:53	1

LB LB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	84	28 - 94	04/24/24 13:34	04/25/24 14:53	1
Tetrachloro-m-xylene	94	52 - 134	04/24/24 13:34	04/25/24 14:53	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 860-154853/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 155448 Prep Batch: 154853

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<3.95	U	16.7	3.95	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1221	<3.95	U	16.7	3.95	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1232	<3.95	U	16.7	3.95	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1242	<3.95	U	16.7	3.95	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1248	<3.95	U	16.7	3.95	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1254	<2.61	U	16.7	2.61	ug/Kg		04/15/24 13:17	04/18/24 10:18	1
PCB-1260	<2.61	U	16.7	2.61	ug/Kg		04/15/24 13:17	04/18/24 10:18	1

	MB	MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	97	35 - 140	04/15/24 13:17	04/18/24 10:18	1
DCB Decachlorobiphenyl (Surr)	111	37 - 142	04/15/24 13:17	04/18/24 10:18	1

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 860-154853/20-A

Matrix: Solid

Analysis Batch: 155448

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 870-26091-1

Prep Batch: 154853

Prep Type: Total/NA

2

27 - 139

107

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits PCB-1016 27 - 121 167 145.0 ug/Kg 87 PCB-1260 167 175.6 ug/Kg 105 27 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits 35-140 Tetrachioro-m-xylene 98 DCB Decachlorobiphenyl (Surr) 113 37 - 142

Lab Sample ID: LCSD 860-154853/21-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 155448

Prep Batch: 154853 Spike LCSD LCSD RPD %Rec Limit Analyte Added Result Qualifier Unit %Rec Limits RPD 20 PCB-1016 167 146.1 ug/Kg 88 27 - 121 1

178.8

ug/Kg

167

PCB-1260

LCSD LCSD

%Recovery Qualifier Limits Surrogate 35 - 140 Tetrachioro-m-xylene 99 113 37 - 142 DCB Decachlorobiphenyl (Surr)

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 860-154991/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 155670

MB MB

Prepared Result Qualifier RI. MDL Unit Analyzed Analyte Dil Fac 2,4-D <0.000155 U 0.000200 0.000155 04/16/24 08:01 04/21/24 08:03 2,4,5-TP (Silvex) <0.0000400 U 04/16/24 08:01 04/21/24 08:03 0.000200 0.0000400 mg/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 2.4-Dichlorophenylacetic acid 42 - 150 04/16/24 08:01 04/21/24 08:03 111

Lab Sample ID: LCS 860-154991/2-A

Matrix: Solid

Analysis Batch: 155670

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits

2,4-D 0.00200 0.002137 107 45 - 124 mg/L 2,4,5-TP (Silvex) 45 - 124 0.00200 0.002400 120 mg/L

LCS LCS

%Recovery Qualifier Surrogate I imits 42 - 150 2,4-Dichlorophenylacetic acid 140

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Prep Type: Total/NA

Prep Batch: 154991



Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 860-154991/3-A

Matrix: Solid

Analysis Batch: 155670

Analysis Batch: 155670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Job ID: 870-26091-1

Prep Batch: 154991

Spike LCSD LCSD %Rec **RPD** Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit 2.4-D 0.00200 0.002018 mg/L 101 45 - 124 6 25 2,4,5-TP (Silvex) 0.00200 0.002293 mg/L 115 45 - 124 5 25

LCSD LCSD

Surrogate %Recovery Qualifier Limits 42 - 150 2,4-Dichlorophenylacetic acid 144

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 154991

IR IR

Analyte Result Qualifier RL MDL Unit Prepared **Analyzed** Dil Fac 2,4-D <0.000150 U 0.000194 0.000150 mg/L 04/17/24 07:00 04/20/24 13:17 2,4,5-TP (Silvex) <0.0000388 U 0.000194 0.0000388 mg/L 04/17/24 07:00 04/20/24 13:17

LB LB

MB MB

Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 2,4-Dichlorophenylacetic acid 97 42 - 150 04/17/24 07:00 04/20/24 13:17

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 860-157748/1-A

Lab Sample ID: LB 860-154682/1-G

Matrix: Solid

Matrix: Solid

Analysis Batch: 157649

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 157748

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrate as N <692 U 1000 692 ug/Kg 04/30/24 23:45 05/01/24 05:21 Nitrite as N <502 U 1000 502 ug/Kg 04/30/24 23:45 05/01/24 05:21 Nitrate Nitrite as N <0.502 U 1.00 0.502 mg/Kg 04/30/24 23:45 05/01/24 05:21

Lab Sample ID: LCS 860-157748/2-A

Matrix: Solid

Analysis Batch: 157649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 157748

LCS LCS Spike %Rec %Rec **Analyte** Added Result Qualifier Unit Limits Nitrate as N 100000 101300 101 80 - 120 ug/Kg Nitrite as N 100000 80 - 120 100800 ug/Kg 101

Lab Sample ID: LCSD 860-157748/3-A

Matrix: Solid

Analysis Batch: 157649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 157748

LCSD LCSD Spike %Rec %Rec Limits RPD Limit **Analyte** Added Result Qualifier Unit Nitrate as N 100000 101500 ug/Kg 102 80 - 120 0 20 Nitrite as N 100000 101300 ug/Kg 101 80 - 120 0 20

Eurofins Dallas

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 870-26091-1	MS						C	lient Sa	mple ID: 503s Sludge
Matrix: Other Solid Sample									Prep Type: Total/NA
Analysis Batch: 157649									Prep Batch: 157748
	Sample	Sample	Spike	MS	MS				%Rec
Analyta	Pocult	Qualifier	Addad	Pocult	Qualifier	Linit	D	% Pac	Limite

	Sample	Sample	Shike	INIO	IMIO				ONEC
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Nitrate as N	1510		99000	88010		ug/Kg		87	80 - 120
Nitrite as N	3970		24800	25900		ug/Kg		89	80 - 120

Lab Sample ID: 870-26091-1 MSD Client Sample ID: 503s Sludge Matrix: Other Solid Sample Prep Type: Total/NA Analysis Batch: 157649 Prep Batch: 157748

·	Sample Sar	mple S	oike MSE	MSD			%Rec		RPD
Analyte	Result Qua	alifier Ad	ded Resul	t Qualifier	Unit D	%Rec	Limits	RPD	Limit
Nitrate as N	1510	99	000 88020)	ug/Kg	87	80 - 120	0	15
Nitrite as N	3970	24	800 25890)	ug/Kg	89	80 - 120	0	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 860-154766/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA

Analysis Batch: 154872

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00650	U	0.0100	0.00650	mg/L		04/15/24 07:30	04/15/24 13:21	1
Barium	< 0.00125	U	0.0100	0.00125	mg/L		04/15/24 07:30	04/15/24 13:21	1
Cadmium	< 0.000831	U	0.00500	0.000831	mg/L		04/15/24 07:30	04/15/24 13:21	1
Chromium	< 0.00216	U	0.0100	0.00216	mg/L		04/15/24 07:30	04/15/24 13:21	1
Lead	< 0.00368	U	0.0100	0.00368	mg/L		04/15/24 07:30	04/15/24 13:21	1
Selenium	<0.00927	U	0.0300	0.00927	mg/L		04/15/24 07:30	04/15/24 13:21	1
Silver	< 0.00371	U	0.0200	0.00371	mg/L		04/15/24 07:30	04/15/24 13:21	1

Lab Sample ID: LCS 860-154766/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA

Analysis Batch: 154872

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1.00	0.9810		mg/L		98	80 - 120	
Barium	1.00	0.9870		mg/L		99	80 - 120	
Cadmium	1.00	0.9710		mg/L		97	80 - 120	
Chromium	1.00	1.010		mg/L		101	80 - 120	
Lead	1.00	1.010		mg/L		101	80 - 120	
Selenium	1.00	0.9820		mg/L		98	80 - 120	
Silver	0.500	0.4810		mg/L		96	80 - 120	

Lab Sample ID: LCSD 860-154766/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA

Analysis Ratch: 15/1872

Analysis Batch: 154872					Prep Ba		54766
	Spike	LCSD LCSD			%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	RPD	Limit
Arsenic	1.00	0.9730	mg/L	97	80 - 120	1	20
Barium	1.00	0.9810	mg/L	98	80 - 120	1	20
Cadmium	1.00	0.9630	mg/L	96	80 - 120	1	20
Chromium	1.00	0.9960	mg/L	100	80 - 120	1	20
Lead	1.00	0.9970	mg/L	100	80 - 120	1	20
Selenium	1.00	0.9840	mg/L	98	80 - 120	0	20

Eurofins Dallas

Job ID: 870-26091-1

Prep Batch: 154766

Prep Batch: 154766

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Spike

Added

0.500

LCSD LCSD

0.4790

RL

0.100

RL

0.000200

Spike

Added

Spike

Added

0.00200

0.00200

Result Qualifier

MDL Unit

MDL Unit

0.0000706 mg/L

LCS LCS

LCSD LCSD

Result Qualifier

MDL Unit

0.0000706 mg/L

Unit

mg/L

0.001979

0.001967

RL

0.000200

Unit

mg/L

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-154766/3-A

Matrix: Solid

Analyte

Analyte

Arsenic

Barium

Cadmium

Chromium

Analysis Batch: 154872

Silver

Lab Sample ID: LB 860-154682/1-B Matrix: Solid

Analysis Batch: 154872

LB LB

Result Qualifier

<0.0325 U

<0.00625 U

<0.00416 U

<0.0108 U

MB MB Result Qualifier

<0.0000706 U

Lead <0.0184 U Selenium <0.0464 U Silver <0.0186 U

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 860-154968/10-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 155129

Analyte

Lab Sample ID: LCS 860-154968/11-A

Analysis Batch: 155129

Analyte

Mercury

Mercury

Lab Sample ID: LCSD 860-154968/12-A Matrix: Solid

Analysis Batch: 155129

Analyte Mercury

Lab Sample ID: LB 860-154682/1-D

Matrix: Solid

Analysis Batch: 155129

LB LB

Analyte Result Qualifier

Mercury <0.0000706 U Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 154766

Job ID: 870-26091-1

%Rec **RPD** Limits %Rec RPD Limit 96 80 - 120 Ω 20

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 154766

Prepared Analyzed Dil Fac

0.0500 0.0325 mg/L 04/15/24 07:30 04/15/24 13:27 0.0500 04/15/24 07:30 04/15/24 13:27 0.00625 mg/L 0.0250 0.00416 mg/L 04/15/24 07:30 04/15/24 13:27 0.0500 0.0108 mg/L 04/15/24 07:30 04/15/24 13:27 0.0500 0.0184 mg/L 04/15/24 07:30 04/15/24 13:27 0.150 0.0464 mg/L 04/15/24 07:30 04/15/24 13:27

0.0186 mg/L 04/15/24 07:30 04/15/24 13:27

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 154968

Prepared Analyzed Dil Fac

Client Sample ID: Lab Control Sample

04/15/24 22:04 04/16/24 14:44

Prep Type: Total/NA

Prep Batch: 154968 %Rec

Result Qualifier Limits Unit %Rec 99 80 - 120 mg/L

D %Rec

98

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 154968 %Rec **RPD** Limits RPD Limit

80 - 120 Client Sample ID: Method Blank

Prep Type: TCLP Prep Batch: 154968

20

Prepared **Analyzed** Dil Fac 04/15/24 22:05 04/16/24 14:48

Eurofins Dallas

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Prep Type: Total/NA

Prep Batch: 155432

Prep Type: Total/NA

Prep Batch: 155432

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 860-155432/10-A

Matrix: Solid

Analysis Batch: 155617

MR MR

Analyte Result Qualifier Mercury <0.00895 U

RL 0.0200

Spike

Added

0.200

MDL Unit 0.00895 mg/Kg

LCS LCS

0.1980

0.1978

RL

100

RL

100

RL

100

Spike

1000

Added

Result Qualifier

Prepared Analyzed 04/18/24 03:23 04/18/24 18:17

Client Sample ID: Lab Control Sample

%Rec

Limits

80 - 120

Client Sample ID: Method Blank

Dil Fac

Lab Sample ID: LCS 860-155432/11-A

Matrix: Solid

Analysis Batch: 155617

Analyte Mercury

Lab Sample ID: LCSD 860-155432/12-A

Matrix: Solid Analysis Batch: 155617

Analyte Mercury

Spike Added 0.200

Unit

mg/Kg

LCSD LCSD Result Qualifier Unit

MDL Unit

26.7 ug/Kg

MDL Unit

26.7 ug/Kg

MDL Unit

LCS LCS

955.0

26.7 ug/Kg

ma/Ka

%Rec

Prepared

80 - 120 0

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-155309/100

Matrix: Solid

Analysis Batch: 155309

MB MB

MB MB

<26.7 U

Result Qualifier

Result Qualifier Analyte Ammonia <26.7 U

Lab Sample ID: MB 860-155309/16 Matrix: Solid

Analysis Batch: 155309

MB MB Result Qualifier

Analyte Ammonia

<26.7 U

Lab Sample ID: MB 860-155309/58 Matrix: Solid

Analysis Batch: 155309

Analyte Ammonia

Lab Sample ID: LCS 860-155309/101 Matrix: Solid

Analysis Batch: 155309

Analyte Ammonia Client Sample ID: Lab Control Sample Dup

%Rec

99

Prep Type: Total/NA Prep Batch: 155432

%Rec RPD Limits RPD Limit

20

Dil Fac

Dil Fac

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed

04/17/24 12:24

Client Sample ID: Method Blank

Prep Type: Total/NA

D Prepared Analyzed Dil Fac 04/17/24 07:44

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed

04/17/24 10:04

Client Sample ID: Lab Control Sample

%Rec

Prep Type: Total/NA

Result Qualifier Unit %Rec Limits ug/Kg 96 90 - 110

Prepared

LCS LCS

LCSD LCSD

LCSD LCSD

LLCS LLCS

88.00 J

Result Qualifier

MDL Unit

3930 ug/Kg

MDL Unit

98.2 ug/Kg

Result Qualifier

Result Qualifier

952.0

983.0

987.0

Result Qualifier

Unit

ug/Kg

Unit

ug/Kg

Unit

ug/Kg

Unit

ug/Kg

D %Rec

95

%Rec

D %Rec

D %Rec

88

98

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample Dup

Spike

Added

1000

Spike

Added

1000

Spike

Added

1000

Spike

100

RL

RL

200

8000

Added

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

RPD

RPD

3

Client Sample ID: Lab Control Sample

%Rec

Limits

%Rec

Limits

90 - 110

%Rec

Limits

90 - 110

%Rec

Limits

50 - 150

Client Sample ID: Lab Control Sample

90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 860-155309/59

Matrix: Solid

Analyte

Analyte

Analyte

Ammonia

Analysis Batch: 155309

Ammonia

Lab Sample ID: LCSD 860-155309/102 Matrix: Solid

Analysis Batch: 155309

Ammonia Lab Sample ID: LCSD 860-155309/60

Matrix: Solid

Analysis Batch: 155309

Ammonia

Lab Sample ID: LLCS 860-155309/19 Matrix: Solid

Analysis Batch: 155309

Analyte

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-155849/27-A

Matrix: Solid

Analysis Batch: 156572

MR MR Result Qualifier

Analyte Nitrogen, Kjeldahl

Lab Sample ID: MB 860-155849/4-A

Matrix: Solid

Analysis Batch: 156572

MR MR

Analyte

Nitrogen, Kjeldahl <98.2 U Lab Sample ID: LCS 860-155849/28-A

Matrix: Solid

Analysis Batch: 156572

Analyte Nitrogen, Kjeldahl

Added 80000

Spike

<3930 U

Result Qualifier

73950

LCS LCS Result Qualifier

Unit ug/Kg %Rec

Prepared

Limits 90 - 110 92

Prep Type: Total/NA

RPD

Limit

20

RPD

Limit

20







Prep Type: Total/NA

Prep Batch: 155849

Prepared Analyzed Dil Fac

Client Sample ID: Method Blank

Analyzed

04/19/24 23:17 04/23/24 19:14

04/19/24 23:17 04/23/24 19:03

Prep Type: Total/NA Prep Batch: 155849

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Dil Fac

Prep Batch: 155849 %Rec

Eurofins Dallas

Client: City of Dallas, TX

Job ID: 870-26091-1 Project/Site: 503s Sludge 04/10/24

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCSD 860-155849/29-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Total/NA

Analysis Batch: 156572 Prep Batch: 155849 LCSD LCSD Spike %Rec

RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahl 80000 75630 90 - 110 2 20 ug/Kg 95

Lab Sample ID: LLCS 860-155849/5-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Prep Batch: 155849** Analysis Batch: 156572

LLCS LLCS %Rec **Spike** Analyte Added Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 200 183.0 J ug/Kg 92 50 - 150

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

GC/MS VOA

Leach	Ra	tch:	15	4560	
LEGUII	Da	LLGII.	-10	4300	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	1311	
			Sample		

Analysis Batch: 154933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	8260C	154560
MB 860-154933/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-154933/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-154933/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 154682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	1311	
			Sample		
LB 860-154682/1-E	Method Blank	TCLP	Solid	1311	
LB 860-154682/1-I	Method Blank	TCLP	Solid	1311	

Prep Batch: 155065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-154682/1-E	Method Blank	TCLP	Solid	3511	154682
MB 860-155065/1-A	Method Blank	Total/NA	Solid	3511	
LCSD 860-155065/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 155235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-154682/1-E	Method Blank	TCLP	Solid	8270E	155065
MB 860-155065/1-A	Method Blank	Total/NA	Solid	8270E	155065
LCSD 860-155065/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	155065

Prep Batch: 156182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	3511	154682
			Sample		
LB 860-154682/1-I	Method Blank	TCLP	Solid	3511	154682
MB 860-156182/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-156182/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-156182/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 156193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-156182/1-A	Method Blank	Total/NA	Solid	8270E	156182
LCS 860-156182/2-A	Lab Control Sample	Total/NA	Solid	8270E	156182
LCSD 860-156182/3-A	Lab Control Sample Dup	Total/NA	Solid	8270E	156182

Analysis Batch: 156483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 860-154682/1-I	Method Blank	TCLP	Solid	8270E	156182

Eurofins Dallas

Job ID: 870-26091-1

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Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

GC/MS Semi VOA

Analysis B	atch: 156490
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	8270E	156182

GC Semi VOA

Leach Batch: 154682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	1311	
LB 860-154682/1-F	Method Blank	TCLP	Solid	1311	
LB 860-154682/1-G	Method Blank	TCLP	Solid	1311	
LB 860-154682/1-J	Method Blank	TCLP	Solid	1311	

Prep Batch: 154853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	3550C	
			Sample		
MB 860-154853/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 860-154853/20-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 860-154853/21-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Prep Batch: 154991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	3511	154682
LB 860-154682/1-G	Method Blank	TCLP	Solid	3511	154682
MB 860-154991/1-A	Method Blank	Total/NA	Solid	3511	(
LCS 860-154991/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-154991/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Prep Batch: 155302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	3511	154682
LB 860-154682/1-F	Method Blank	TCLP	Solid	3511	154682
MB 860-155302/1-A	Method Blank	Total/NA	Solid	3511	
LCS 860-155302/2-A	Lab Control Sample	Total/NA	Solid	3511	
LCSD 860-155302/3-A	Lab Control Sample Dup	Total/NA	Solid	3511	

Analysis Batch: 155439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	8081B	155302
			Sample		
LB 860-154682/1-F	Method Blank	TCLP	Solid	8081B	155302
LCS 860-155302/2-A	Lab Control Sample	Total/NA	Solid	8081B	155302
LCSD 860-155302/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	155302

Analysis Batch: 155448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-154853/1-A	Method Blank	Total/NA	Solid	8082A	154853
LCS 860-154853/20-A	Lab Control Sample	Total/NA	Solid	8082A	154853
LCSD 860-154853/21-A	Lab Control Sample Dup	Total/NA	Solid	8082A	154853

Eurofins Dallas

Job ID: 870-26091-1

Page 32 of 43 5/2/2024

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

GC Semi VOA

Analysis Batch: 155670	Analy	/SIS	Ва	tch:	1	55	56	70)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	8151A	154991
			Sample		
LB 860-154682/1-G	Method Blank	TCLP	Solid	8151A	154991
MB 860-154991/1-A	Method Blank	Total/NA	Solid	8151A	154991
LCS 860-154991/2-A	Lab Control Sample	Total/NA	Solid	8151A	154991
LCSD 860-154991/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	154991

Analysis Batch: 155705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	8082A	154853
			Sample		

Analysis Batch: 156200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-155302/1-A	Method Blank	Total/NA	Solid	8081B	155302

Prep Batch: 156593

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
503s Sludge	TCLP	Other Solid	3511	154682
Method Blank	TCLP	Solid	3511	154682
Method Blank	Total/NA	Solid	3511	
Lab Control Sample	Total/NA	Solid	3511	
Lab Control Sample Dup	Total/NA	Solid	3511	
	503s Sludge Method Blank Method Blank Lab Control Sample	503s Sludge TCLP Method Blank TCLP Method Blank Total/NA Lab Control Sample Total/NA	503s Sludge TCLP Other Solid Sample Method Blank TCLP Solid Method Blank Total/NA Solid Lab Control Sample Total/NA Solid	503s Sludge TCLP Other Solid Sample 3511 Method Blank TCLP Solid 3511 Method Blank Total/NA Solid 3511 Lab Control Sample Total/NA Solid 3511

Analysis Batch: 156738

)	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	870-26091-1	503s Sludge	TCLP	Other Solid Sample	8081B	156593
	LB 860-154682/1-J	Method Blank	TCLP	Solid	8081B	156593
	MB 860-156593/1-A	Method Blank	Total/NA	Solid	8081B	156593
	LCS 860-156593/2-A	Lab Control Sample	Total/NA	Solid	8081B	156593
	LCSD 860-156593/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	156593

HPLC/IC

Analysis Batch: 157649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	9056A	157748
			Sample		
MB 860-157748/1-A	Method Blank	Total/NA	Solid	9056A	157748
LCS 860-157748/2-A	Lab Control Sample	Total/NA	Solid	9056A	157748
LCSD 860-157748/3-A	Lab Control Sample Dup	Total/NA	Solid	9056A	157748
870-26091-1 MS	503s Sludge	Total/NA	Other Solid	9056A	157748
			Sample		
870-26091-1 MSD	503s Sludge	Total/NA	Other Solid	9056A	157748
			Sample		

Prep Batch: 157748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	300_Prep	
			Sample		
MB 860-157748/1-A	Method Blank	Total/NA	Solid	300_Prep	

Eurofins Dallas

5/2/2024

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

HPLC/IC (Continued)

Prep	Batch:	157748	(Continued)
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-157748/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-157748/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
870-26091-1 MS	503s Sludge	Total/NA	Other Solid	300_Prep	
870-26091-1 MSD	503s Sludge	Total/NA	Sample Other Solid	300 Prep	
070 20001 1 11100	5003 Sladge	TOTALLA	Sample	000_1 Tep	

Metals

Leach Batch: 154682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	1311	
			Sample		
LB 860-154682/1-B	Method Blank	TCLP	Solid	1311	
LB 860-154682/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 154766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	3010A	154682
LB 860-154682/1-B	Method Blank	TCLP	Solid	3010A	154682
MB 860-154766/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 860-154766/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 860-154766/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 154872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid Sample	6010C	154766
LB 860-154682/1-B	Method Blank	TCLP	Solid	6010C	154766
MB 860-154766/1-A	Method Blank	Total/NA	Solid	6010C	154766
LCS 860-154766/2-A	Lab Control Sample	Total/NA	Solid	6010C	154766
LCSD 860-154766/3-A	Lab Control Sample Dup	Total/NA	Solid	6010C	154766

Prep Batch: 154968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	7470A	154682
			Sample		
LB 860-154682/1-D	Method Blank	TCLP	Solid	7470A	154682
MB 860-154968/10-A	Method Blank	Total/NA	Solid	7470A	
LCS 860-154968/11-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 860-154968/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 155129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	TCLP	Other Solid	7470A	154968
			Sample		
LB 860-154682/1-D	Method Blank	TCLP	Solid	7470A	154968
MB 860-154968/10-A	Method Blank	Total/NA	Solid	7470A	154968
LCS 860-154968/11-A	Lab Control Sample	Total/NA	Solid	7470A	154968
LCSD 860-154968/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	154968

Eurofins Dallas

Job ID: 870-26091-1

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5/2/2024

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Metals

Prep E	Batch:	155432
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid Sample	7471B	
MB 860-155432/10-A	Method Blank	Total/NA	Solid	7471B	
LCS 860-155432/11-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 860-155432/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	

Analysis Batch: 155617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid Sample	7471B	155432
MB 860-155432/10-A	Method Blank	Total/NA	Solid	7471B	155432
LCS 860-155432/11-A	Lab Control Sample	Total/NA	Solid	7471B	155432
LCSD 860-155432/12-A	Lab Control Sample Dup	Total/NA	Solid	7471B	155432

General Chemistry

Analysis Batch: 155309

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	870-26091-1	503s Sludge	Total/NA	Other Solid	350.1	155332
				Sample		
	MB 860-155309/100	Method Blank	Total/NA	Solid	350.1	
	MB 860-155309/16	Method Blank	Total/NA	Solid	350.1	
	MB 860-155309/58	Method Blank	Total/NA	Solid	350.1	
	LCS 860-155309/101	Lab Control Sample	Total/NA	Solid	350.1	
	LCS 860-155309/59	Lab Control Sample	Total/NA	Solid	350.1	
	LCSD 860-155309/102	Lab Control Sample Dup	Total/NA	Solid	350.1	
j	LCSD 860-155309/60	Lab Control Sample Dup	Total/NA	Solid	350.1	
	LLCS 860-155309/19	Lab Control Sample	Total/NA	Solid	350.1	

Prep Batch: 155332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	KCI Extraction	
			Sample		

Prep Batch: 155849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid	351.2	
			Sample		
MB 860-155849/27-A	Method Blank	Total/NA	Solid	351.2	
MB 860-155849/4-A	Method Blank	Total/NA	Solid	351.2	
LCS 860-155849/28-A	Lab Control Sample	Total/NA	Solid	351.2	
LCSD 860-155849/29-A	Lab Control Sample Dup	Total/NA	Solid	351.2	
LLCS 860-155849/5-A	Lab Control Sample	Total/NA	Solid	351.2	

Analysis Batch: 156572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26091-1	503s Sludge	Total/NA	Other Solid Sample	351.2	155849
MB 860-155849/27-A	Method Blank	Total/NA	Solid	351.2	155849
MB 860-155849/4-A	Method Blank	Total/NA	Solid	351.2	155849
LCS 860-155849/28-A	Lab Control Sample	Total/NA	Solid	351.2	155849
LCSD 860-155849/29-A	Lab Control Sample Dup	Total/NA	Solid	351.2	155849
LLCS 860-155849/5-A	Lab Control Sample	Total/NA	Solid	351.2	155849

Eurofins Dallas

Job ID: 870-26091-1





Lab Chronicle

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Lab Sample ID: 870-26091-1

Matrix: Other Solid Sample

Job ID: 870-26091-1

Client Sample ID: 503s Sludge

Date Collected: 04/10/24 11:00 Date Received: 04/11/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
TCLP	Leach	1311			20.02 g	400 mL	154560	04/12/24 17:00	JCM	EET HOU
							Completed:	04/13/24 09:00		
TCLP	Analysis	8260C		50	5 mL	5 mL	154933	04/16/24 07:38	NA	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	EMC	EET HOU
							Completed:	04/14/24 04:00		
TCLP	Prep	3511			35.00 mL	2.00 mL	156182	04/24/24 10:27		EET HOU
TCLP	Analysis	8270E		10	1 mL	1 mL	156490	04/24/24 17:30	EM	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	_	EET HOL
							Completed:	04/14/24 04:00		
TCLP	Prep	3511			48.4 mL	5 mL	155302	04/17/24 17:04		EET HOL
TCLP	Analysis	8081B		1			155439	04/18/24 20:07	WP	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	EMC	EET HOU
							Completed:	04/14/24 04:00	1	
TCLP	Prep	3511			48.3 mL	5 mL	156593	04/24/24 13:34		EET HOU
TCLP	Analysis	8081B		1			156738	04/25/24 15:04	WP	EET HOU
Total/NA	Prep	3550C			4.97 g	5 mL	154853	04/15/24 13:17	BH	EET HOU
Total/NA	Analysis	8082A		1			155705	04/19/24 10:45	WP	EET HOL
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	EMC	EET HOL
							Completed:	04/14/24 04:00	1	
TCLP	Prep	3511			50.7 mL	4 mL	154991	04/16/24 08:01	TH	EET HOU
TCLP	Analysis	8151A		1			155670	04/21/24 04:07	WP	EET HOU
Total/NA	Prep	300_Prep			5.03 g	50 mL	157748	04/30/24 23:45	RBNS	EET HOU
Total/NA	Analysis	9056A		1			157649	05/01/24 06:05	RBNS	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	EMC	EET HOU
							Completed:	04/14/24 04:00	1	
TCLP	Prep	3010A			10 mL	50 mL	154766	04/15/24 07:30	MD	EET HOU
TCLP	Analysis	6010C		1			154872	04/15/24 13:49	JDM	EET HOU
TCLP	Leach	1311			100.00 g	2000 mL	154682	04/13/24 12:00	EMC	EET HOU
							Completed	04/14/24 04:00	1	
TCLP	Prep	7470A			50 mL	50 mL	154968	04/15/24 22:05	AGR	EET HOU
TCLP	Analysis	7470A		1			155129	04/16/24 15:01	SHZ	EET HOU
Total/NA	Prep	7471B			.54 g	50 mL	155432	04/18/24 03:23	AGR	EET HOU
Total/NA	Analysis	7471B		1			155617	04/18/24 19:00		EET HOL
Total/NA	Prep	KCI Extraction			5 g	50 mL	155332	04/17/24 09:53		EET HOU
Total/NA	Analysis	350.1		100	~ y	OO IIIL	155309	04/17/24 13:33		EET HOU
Total/NA	•	351.2			0.51 mL	201	155849	04/19/24 23:22		
Total/NA	Prep Analysis	351.2		50	U.ST IIIL	20 mL	155849	04/19/24 23:22 04/23/24 19:57		EET HOU

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: City of Dallas, TX Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
Texas	NEL AP	T104704215	06-30-24	

Eurofins Dallas

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Method Summary

Client: City of Dallas, TX

Project/Site: 503s Sludge 04/10/24

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET HOU
8081B	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET HOU
8151A	Herbicides (GC)	SW846	EET HOU
9056A	Anions, Ion Chromatography	SW846	EET HOU
6010C	Metals (ICP)	SW846	EET HOU
7470A	Mercury (CVAA)	SW846	EET HOU
7471B	Mercury (CVAA)	SW846	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
1311	TCLP Extraction	SW846	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
3550C	Ultrasonic Extraction	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
7470A	Preparation, Mercury	SW846	EET HOU
7471B	Preparation, Mercury	SW846	EET HOU
KCI Extraction	Potassium chloride Extraction (NH3)	EPA	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Dallas

Job ID: 870-26091-1

Sample Summary

Client: City of Dallas, TX Project/Site: 503s Sludge 04/10/24

Job ID: 870-26091-1

ab Sample ID Client Sample ID 870-26091-1 503s Sludge

Matrix Other Solid Sample

Collected Received 04/10/24 11:00 04/11/24 15:10

Eurofins Anco, Dallas

9701 Harry Hines Blvd Dallas, TX 75220

Chain of Custody Record

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5			

Environment Testing

Phone (214) 902-0300			_															_	COC No:	
Client Information	Sempler: Southside Was	teWater Op	erations	La	b PM: len, Jo	odi L							Came	er Trec	king N	lo(s):			870-1278-148.1	
Client Contact.	Phone.			E-I	Mail									of Ori	gin:				Page: Page 1 of 1	
April Allen	(214)670-0438			Jo	di.Alle	n@E	urofin	set.co	om				TX	_	-			_	Job#:	
Company City of Dallas	-		PWSID.						Α	naly	sis	Req	ues	ted					J00 #.	
Address 10011 Log Cabin Road	Due Date Request	ed:													111	, 10:00:140:1	10 10 10 1		 Romanda (1981-1981)	MM
City: Dallas	TAT Requested (d	ays):																		
State, Zip TX, 75203	Compliance Project	ct: A Yes	Δ Νο																	
Phone 214.670,0438	PO#. PO not required	***				31									8	70-260	91 Ch	ain (of Custody	, drat
Email: april: aller @dallasictyhall.com	WO #:				Sample (Yes or No)	(0)		(TKN)										2	J - DI Water	U - Acetone V - MCAA
Project Name: 503 Sludge	Project #: 87000730				(Yes	s or h	6	rogen					letals	des	ides				K - EOTA L - EDA	W - pH 4-5 Z - other (specify)
Site	S\$OW#:		***		Imple	D (Ye	5	ahi Nie		7	Voc	SVOC	CLP M	Pestici	Herbic			of con	Other:	
Southside Waste Water Treatment Plant		T		Matrix	- S pa	SVINS	Merc	Kjeld	nia	e as	CLP	TCLP	470-T	CLP	CLP			ber		
Sample Identification	Sample Date	Sample Time		(Wewater, Sesolid, Oeweate/oll, BT=Tissue, Ae/	- 1	Perform MS/MSD (Yes or No)	8082-PCBs 7471A-Total Mercury (Hg)	351.2 - Total Kjeldahl Nitrogen (TKN)	350.1Ammonia	9056A-Nitrate as N	1311/8260- TCLP VOC	1311/8270-TCLP SVOC	1311/6010/7470-TCLP Metals	1311/8081-TCLP Pesticides	1311/8151-TCLP Herbicides			Total Number of	Special In	structions/Note:
		><	Preserva	tion Code:	X	X											-	X	1	
503s Sludge	4/10/24	8:00AM- 11AM	С	S	N	N	××	×	X	X	X	X	X	X	X			8		
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														207	6	malaa	FO - 504	airc	d longer than 1	month)
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poiso	on B Unknow	wn Ré	adiol o gical				Retu	rn To	Clier	nt	l		spos	al By	Lab	npies		rchiv	e For	Months
eliverable Requested: I, II, III, IV, Other (specify)						Spec	ial Ins	tructi	ons/C	QC R	equire	emen	its:							
mpty Kit Relinquished by:		Date:			Tim	ne:					6			Meth	od of S	Shipment				16
elinquished by:	Date/Time: /24	14	21	Company		F	eceiyed	by:	4	an	as	Bu	do	1		Date/Tin		4	1427	Company
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elinquished by Handaway	Date/Time:			Company			eceived	_								Date/Tin	10		- /	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						C	ooler Te	emper	ature(s	s) °C a	nd Oth	er Rer	marks	2	5.8	15	4		34/31) THM-00/

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Eurofins Dallas

9701 Harry Hines Blvd Dallas, TX 75220

Chain of Custody Record



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Environment Testing

Ver 06/08/2021

Phone: 214-902-0300																				
Client Information (Sub Contract Lab)	Sampler			Alk	PM: en Jo	odi L									Trackir		s):		COC No. 870-6018.1	
Client Contact: Shipping/Receiving	Phone:		-	Joo		en@	et.eu	លាវែរ	SUS.Ç	om				ate of	Origin				Page: Page 1 of 1	
Company.					Acc	credit	ations	Requi	red (Se		te):								Job#	
Eurofins Environment Testing South Centr Address:	Due Date Requesti	-d-			NE	LAF	P Te	xas											870-26091 1	
4145 Greenbriar Dr	4/18/2024	ed:								An	alys	is R	equ	este	be				Preservation Cod A HCL	M Hexane
City: Stafford	TAT Requested (da	3A#):																	B NaOH C Zn Acetate	N None O AsNaO2
State, Zip: TX, 77477	1					,			pue e		(N)								D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3
Phone:	PO#:	-							N L		L) ued							2,5	F MeOH G Amothlor	S H2SO4 T TSP Dodecahydrate
281-240-4200(Tel) Email:	WO #:				or No	(0)			ORGFM_48H/300_Prep (MOD) Nitrate		ni Nitro		SVOCE		e î				H Ascorbic Acid	U Acetone V MCAA
Project Name: 503 Sludge	Project #: 87000730				(Yes	POF	Sg	uny	Pre	- Lower	Geldal	5	S .	1000	ICLY Harbigides	,		containers	L EDA	W pH 4-5 Y Trizma Z other (specify)
Site:	\$\$0W#:				- idu	3	P PC	Meroury	H/300	on An	otel	Š A	5 5		A A A	Pron		cont	Other	Z outer (specify)
City of Dallas Southside April Allen	-				-8	MSE	pue	Prep	24	rapk	r de	턴	2	2	S S	HOM				
Sample Identification Client ID (Lab ID)	Sample Date	Sample Time		Matrix (w-water, 3-solid, 0-westeroli, BT=Tissue, AnAi	Floid Filtered	Perform MS/MSD (Yes or No)	8082A/3548 Standard PCBs		Nitrite as N	360.1/KCl_Extraotion Ammonia	351.2/361.2_Prep Total Kjeldahi Nitrogen (TKN)	8260C/1311_Z TCLP VOCS	8270D/1311_T (MOD) TCLP		SOUCHAIT M PORA A fexal Hot	7470A/1311T_Hg Meroury		Total Number of	Special In	structions/Note:
503s Sludge (870-26091-1)	4/10/24	11.00	Lieseiva	Solid	1	\cap	X	X	X	x	х	x	X	x	x >	X		8		
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Note: Since laboratory accreditations are subject to change, Eurofins Environme liaboratory does not currently maintain accreditation in the State of Ongin listed a accreditation status should be brought to Eurofins Environment Testing South C Possible Hazard Identification	bove for analysis/tests	/matrix being a	nalyzed, the sa	imples must b	oe ship	pped ment	to date	o the fi , return Disp	Eurofin m the s osal	s Env signed (A1	rironme d Chair fee m	of Cu	eting S ustody	attest	Central ing to s	. ЦС I said co samp	aboratory mpliance	or other to Eurofi	r instructions will be profins Environment Testing and I lead to the I lead of I lead to the I lead to	ovided, Any changes to ng South Central, LLC.
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Custody Seals Intact. Δ Yes Custody Seal No.							Coole	r Tem	peratu	re(s)	°C and	Other	Rema	rks:						

Login Sample Receipt Checklist

Client: City of Dallas, TX Job Number: 870-2609

Login Number: 26091 List Source: Eurofins Dall

List Number: 1 Creator: Dabinett, lan

Greator. Dapmett, ian		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	





















Login Sample Receipt Checklist

Client: City of Dallas, TX

Job Number: 870-2609

List Source: Eurofins Houst
List Number: 2
List Creation: 04/12/24 10:51 /

Creator: Baker, Jeremiah

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

























ATTACHMENT S

Drainage Design Calculations

(Sewage Sludge Tech Report 4.0 Section 3D)

ATTACHMENT S

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT DRAINAGE DESIGN CALCULATIONS

(Form 10056, Page 12 of 27, Section 3D)

25-Year, 24-Hour Rainfall Event

A U.S. Soil Conservation Service model was used to simulate the effects of a 100-year, 24-hour rainfall event on the drainage basin which encompasses the sludge application sites. Technical Release 55, a hydrology computer modeling program, was used to estimate runoff and peak discharges. The model begins with a rainfall amount uniformly imposed on the watershed over a specified time distribution. Routing procedures are sued to derive a peak discharge rate. By comparing the runoff volume to the peak discharge rate, the model calculates the amount of detention storage needed for a particular rainfall event. The following Table presents the results for the drainage basin where Southside WWTP is located.

Drainage Basin	Runoff Curve Number (CN)	Time of Concentration (hours)	Runoff (inches)	Peak Discharge (cubic feet per second)	Required Storage (acre-feet)	Available Storage (acre-feet)
Pond C	94	1.47	9.07	2,526	267.6	630.8

The detention pond must be dewatered on a regular schedule to maintain capacity for high-volume rainfall conditions. During dewatering, the storm water discharges are returned to the Southside WWTP for treatment.

(See Attachment D)

ATTACHMENT T

Site Development Plan

(Sewage Sludge Tech Report 4.0 Section 4A)

ATTACHMENT T1

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT SITE DEVELOPMENT PLAN

(Form 10056, Page 13 of 27, Section 4A)

Plan View and Cross Section of Surface Disposal Unit

(See Attachment T-2, T-3, T-4, T-5, T-6, T-7)

1. Rate of sludge deposition:

Approximately 70 dry tons of sludge are deposited at the surface disposal site every day.

2. Sludge unit cover:

When the level in the active cell is approximately 4-feet from the top of the monofill containment levee, a 3-foot depth of select soil material (Taylor Marl) is placed as final cover. The final cover is spread and compacted evenly in loose lifts, not exceeding 12- inches deep. The permeability of the Taylor Marl is less than the required maximum of 1×10^{-7} cm per second.

Source and Physical Properties of Sludge Bulking Material

Soil for sludge bulking is obtained onsite. Following is a description of the major soil types at the sludge disposal site.

Arents

This soil material is a moderately alkaline, light yellow-brown, gravelly, sandy, clay loam. Permeability is moderate at 0.2 to 2.0 inches per hour.

Slistid

This soil material is a neutral brown to yellow, loamy, fine sand. It is slightly to strongly acidic with pH values in the range of 5.6 to 6.5. Permeability is rapid at 6.0 to 20 inches per hour. The available water holding capacity is 0.05 to 0.10 inches per inch. The soil has a low shrink-swell potential.

Wilson Clay Loam

This soil material is a dark grayish-brown clay loam. It is moderately alkaline with pH values in the range of 5.6 to 7.8. Permeability is very slow at less than 0.06 inches per hour. The available water holding capacity is high at 0.14 to 0.20 inches per inch. The soil has a high shrink-swell potential, corrosive properties, and low strength.

Locations of Stockpiles of Sludge

Sludge is landfilled 24-hours a day, therefore no stockpiling of sludge occurs.

Area for Sludge Unloading and Mixing

Sludge is unloaded near the active landfill cell, mixed with bulking material and landfilled immediately.

Operational Procedures

Mixing

The sludge and soil are mixed using bulldozers. The mixture is pushed up the working face by bulldozers and spread in horizontal lifts approximately 12 inches deep. The slope of the working face is maintained at a maximum slope of 6:1, horizontal: vertical. This slope minimizes failures, permits the bulldozer to push or haul its load to the top fo the face, and permits good water drainage off the face. The top of the face is limited to approximately 50-feet by BO-feet to reduce the amount of daily cover required. The top level is maintained at a minimum slope of 2 percent to prevent water from standing on the fill area.

2. Ratio of Mixture

The basic controlling factor for the ratio of sludge to soil in the mixture is the ability to obtain a workable mixture. The mixture must satisfactorily withstand handling and placement in the monofill working face. It is also important to obtain a mixture that will allow compaction to the required density. This controls the degree of future consolidation and settlement. The mix ratios of

sludge-to-soil by volume vary from 1:0.5 to 1:1.5.

3. Daily Cover

(See "Description of Methods to Deposit Sludge at Disposal Site," part d.as discussed on the previous page)

Copy of Deed of Recordation

(See Attachment T-7)

Size of Sludge Disposal Area

The Southside WWTP has a 200-acre, lined, surface disposal area with a leachate collection system, and approximately 900 acres of dedicated land disposal (OLD) area.

<u>Description of Method of Controlling infiltration of Ground and Surface</u> <u>Water</u>

The Taylor Marl formation, a calcareous clay/shale formation, serves as the liner for the Southside WWTP sludge disposal site. The Taylor Marl formation is estimated to be a minimum of 50 to 100 feet thick directly below the Southside WWTP disposal site. The formation has a permeability of less than1x10-7 cm/sec and therefore meets the definition of a liner as outlined in paragraph 503.21 of the Federal Register.

A gravel layer underlying the entire Southside WWTP disposal site acts as a leachate collection system. The gravel layer intersects the storage ponds on the site. The content of the ponds are then pumped to the headworks of the Southside WWTP for treatment.

In addition, the slurry wall around the 200-acre, lined surface disposal and the slurry wall around the entire site are a minimum of 3 feet thick and are keyed 5 feet into the Taylor Marl formation which exceeds the Texas Department of Health (Technical Guide No. 2) requirements of having to be keyed a minimum of 3 feet. The slurry walls also have a permeability of less than 1x10"-7 cm/sec. The liner, leachate collection system, and slurry wall prevent the infiltration of ground and surface water.

Financial Assurance to Properly Operate Surface Disposal Unit

Not applicable for facilities owned and operated by a city.

<u>Description of How Methane Gas is Monitored</u>

Methane gas production is monitored continuously using 4 meters on the perimeter of the sludge disposal site.

Public Access

The sewage sludge surface disposal sites are located at the Southside WWTP. This area is therefore, secured and entry is restricted.

Closure Plan

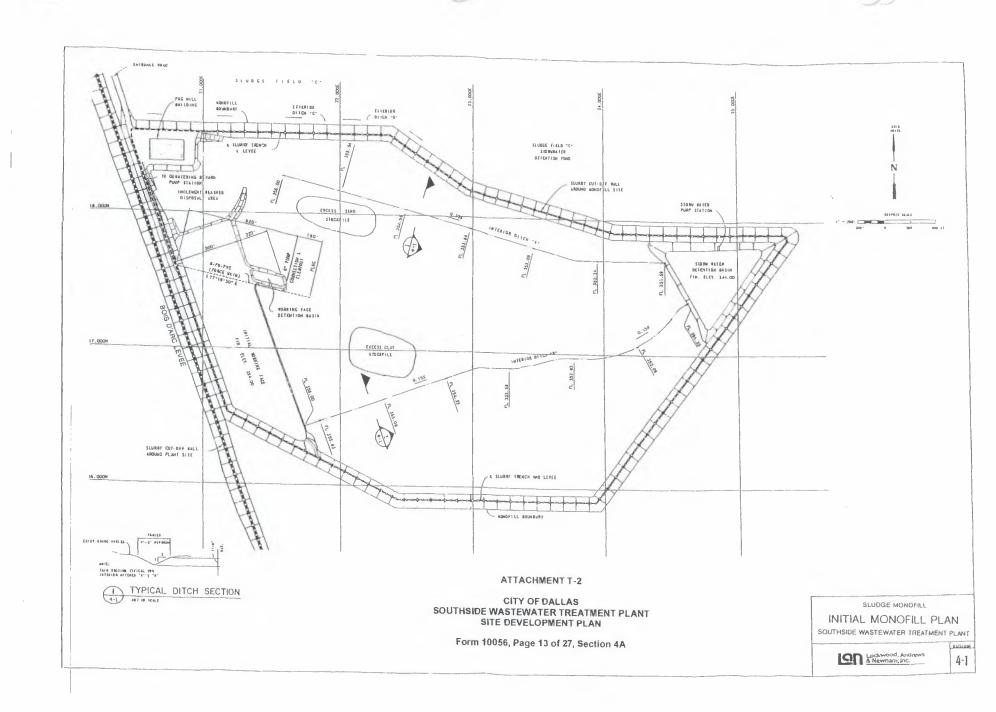
The Southside WWTP lined surface disposal site and dedicated land disposal are considered to have infinite capacity and therefore, no closure plans have been developed for the site.

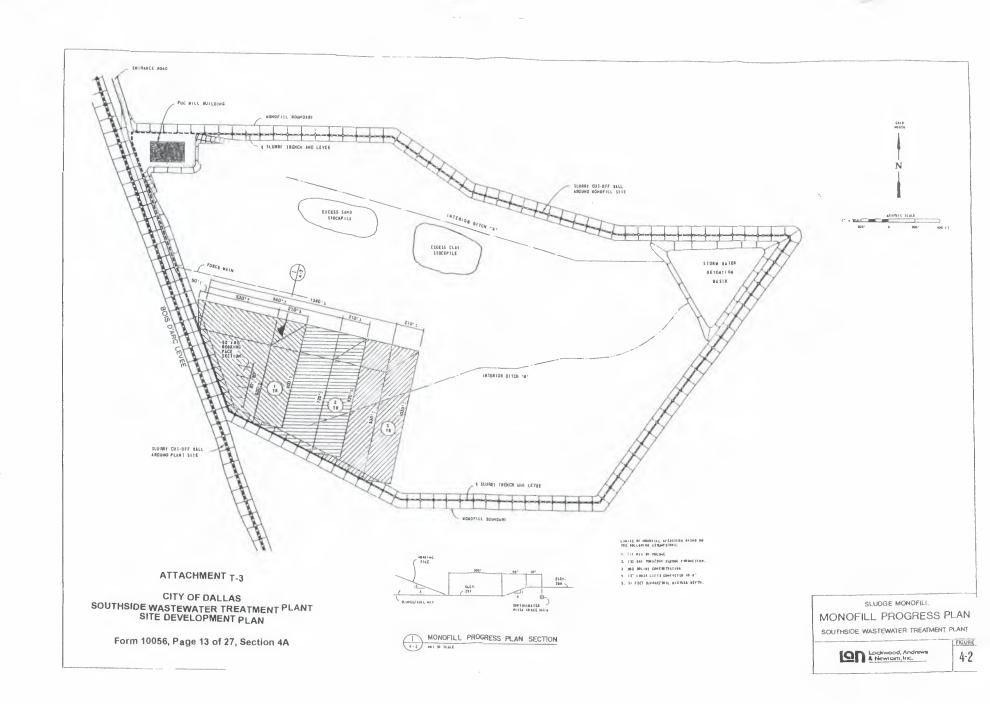
ATTACHMENT T-2 CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT MONITORING WELL BORING LOG

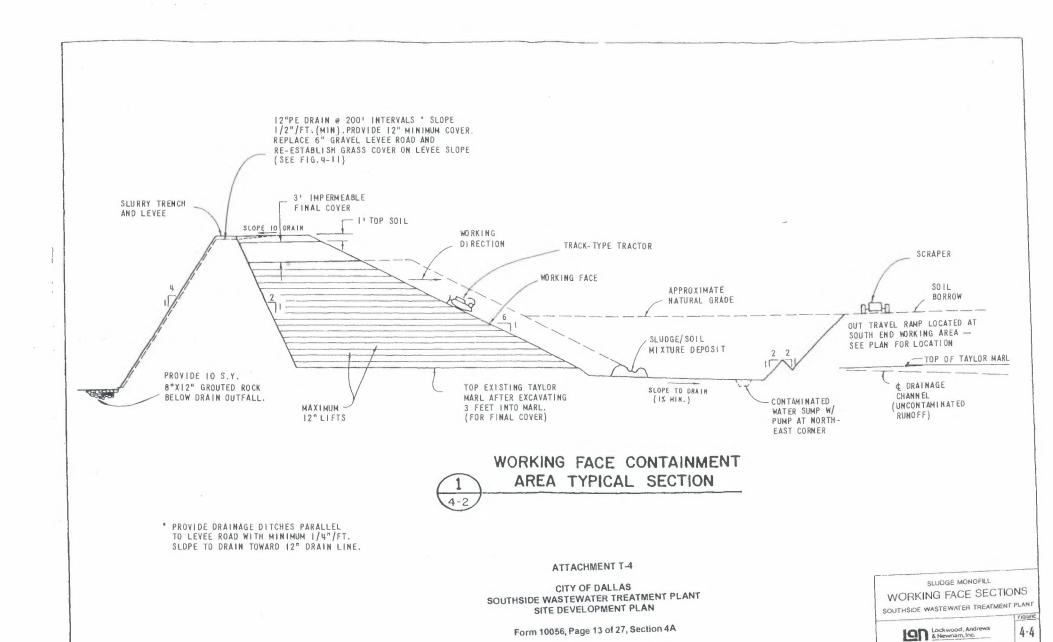
LOG OF BORING

Project: SOUTHSIDE WASTEWATER TREATMENT PLANT

ocation: Da		X Date: 7-15-86 Type: Auger	E		
PEET FEET SYMBOL	N-BLOWS PER FOOT	MATERIAL DESCRIPTION	CORE	CORE RECOVERED	371.6
- 15 - 20 - 25		Water Surface 7-15-86 8-4-86 -LL=23; PI=10; (-)200=43% CLAYEY SAND: Tan to Tan and Light Gray, First Grained (SC-CL) SILTY SAND: Tan to Light Gray First Grained (SM) GRAVELLY SAND: Tan Coarse Grained (SW) MARL: Dark Gray (Taylor Formation)			
- 30		NOTE: The boring was advanced to a depth of 25.5 feet below the ground surface without using drilling fluid and groundwater was encountered at the 1.5 foot depth. Upon completion, the water surface was 1.8 feet below the ground surface and the hole was open to the 25.5 foot depth.			







SELECT MATERIAL COVER
1' TOPSOIL

4

50' x80' LIFTS

4

2

2

EL. 351'

EL. 351'

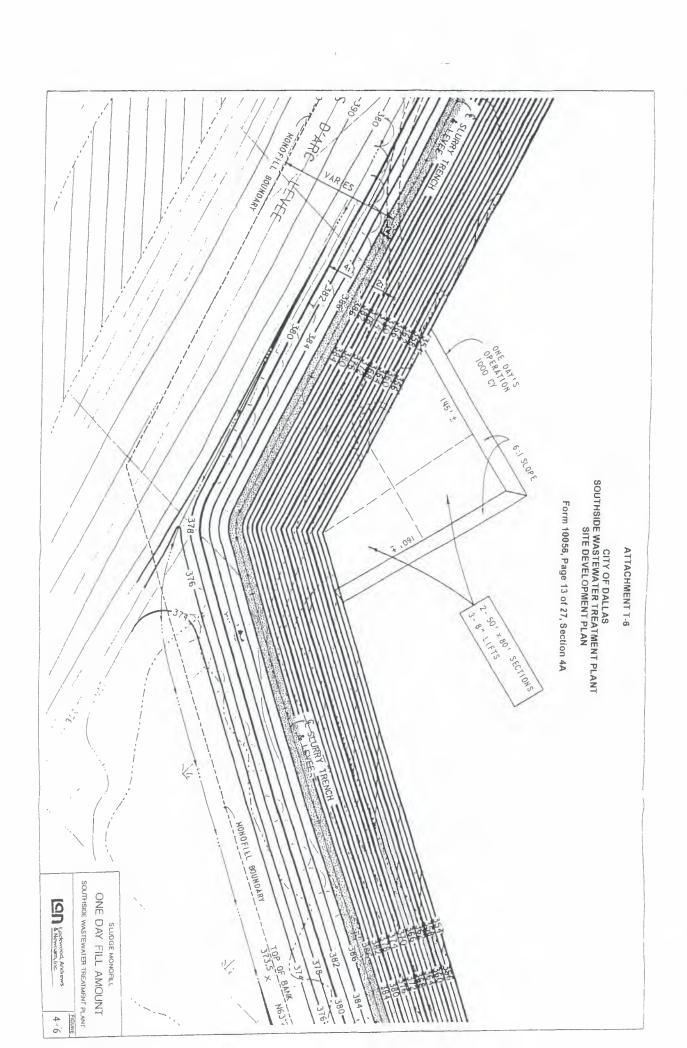
ATTACHMENT T-5

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT SITE DEVELOPMENT PLAN

Form 10056, Page 13 of 27, Section 4A

SLUDGE MONOFILL
MONOFILL LIFT SEQUENCE
SOUTHSIDE WASTEWATER TREATMENT PLANT





OFFICIAL ACTION OF THE DALLAS CITY COUNCIL

May 7, 1986

86-1449

CITY OF DALLAS SOUTHSIDE WASTEWATER TREATMENT PLANT SITE DEVELOPMENT PLAN DEED OF RECORDATION

Form 10056, Page 13 of 27, Section 4A

Agenda item 54: Public hearing - Zoning Case Z856-169/6682-S

A public hearing was called on zoning case Z856-169/6682-S, an application for and an ordinance granting an amendment to and the expansion of Specific Use Permit #84 for a Sewage Treatment Plant on property presently zoned an Agricultural District located on the northwest side of Log Cabin Road, south of Jordan Valley Road and west of South Belt Line Road.

(On May 1, 1986 the city plan commission recommended denial without prejudice.)

Assistant Director of Planning Marvin Krout told the council that subsequent to the city plan commission hearing the applicant had volunteered additional or modified restrictions.

Assistant Director of Planning Marvin Krout reminded the council that Sec. 51-4.701(c)(2) of the development code provides that council approval of a request that has been recommended for denial by the city plan commission would require the favorable vote of three-fourths of all members of the council.

Assistant Director of Planning Marvin Krout reminded the council that Sec. 51-4.701(c)(2) of the development code provides that council approval of a request when a written protest against the change has been received from the owners of twenty percent or more of the land within the area of the request or within 200 feet of the area of request would require the favorable vote of three-fourths of all members of the council.

Appearing in opposition to the recommendation of the city plan commission:

-- Michael Tubbs, 1500 Marilla St., representing the applicant, the Dallas Department of Water Utilities

Appearing in favor of the recommendation of the city plan commission:

- -- Linda Hebert, 14705 Kleberg Rd., representing the Kleberg Neighborhood Association
- -- Melba Winkles, 4111 Middlefield Rd.
- -- Jim Hartnett, 2800 MBank, representing the T. A. Martin property

Councilman Evans moved to close the public hearing, reject the recommendation of the city plan commission, approve the application for an amendment to and the expansion of Specific Use Permit #84 for a Sewage Treatment Plant on the northwest side of Log Cabin Road, south of Jordan Valley Road and west of South Belt Line Road, and pass the ordinance.

Motion seconded by Councilman Vanderbilt.

After discussion, the mayor called the vote on the motion:

Voting Aye: Taylor, Strauss, Ragsdale, Palmer, Richards, Vanderbilt, Holcomb, Evans, Lipscomb, Rucker

-10

Voting Nay: Milkie

-]

The mayor declared the motion adopted.

Assigned ORDINANCE NO. 19151.

5/7/86

ORDINANCE NO. 19151

An ordinance amending CHAPTER 51, "DALLAS DEVELOPMENT CODE," of the Dallas City Code, as amended, by permitting the following described property, which is presently zoned as an A Agricultural District, to-wit:

Being all of City Blocks 8563, 8564, 8783 and 8782 located on the northwest side of Log Cabin Road, south of Jordan Valley Road and west of South Belt Line Road, fronting approximately 10,125 feet on the southeast line of Jordan Valley Road, beginning at its intersection with Middlefield Road, fronting approximately 4,200 feet on the west line of South Belt Line Road, beginning at its intersection with Foot Hill Road, and fronting approximately 10,960 feet on the northwest line of Log Cabin Road, and containing 1,305.2972 acres of land,

to be used under Specific Use Permit No. 84 for a sewage treatment plant; providing that this specific use permit shall be granted subject to certain conditions; providing a penalty not to exceed \$1000; providing a saving clause; providing a severability clause; and providing an effective date.

WHEREAS, the city plan commission and the city council, in accordance with the Charter of the City of Dallas, the state law, and the applicable ordinances of the city, have given the required notices and have held the required public hearings regarding the rezoning of the property hereinafter described; and

WHEREAS, the city council finds that it is in the public

interest to grant this specific use permit, subject to certain conditions; Now, Therefore,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF DALLAS:

SECTION 1. That CHAPTER 51, "DALLAS DEVELOPMENT CODE," of the Dallas City Code, as amended, is amended insofar as it applies to the property hereinafter described ("the Property"), which is presently zoned as an A Agricultural District, and which shall be used under Specific Use Permit No. 84 for a sewage treatment plant, to-wit:

Being a tract of land situated in Dallas County, Texas and being located in the George A. Harrison Survey, Abstracts 652, 651, 650 and the Robert Kleberg Survey Abstract 716; and containing City of Dallas Block Numbers 8563, 8564, 8782 and 8783, and being more particularly described as follows:

Beginning at a Railroad Iron found at the most westerly corner of the George A. Harrison Survey, Abstract 651, and being on the east bank of the Trinity River;

Thence N 45°00'26" E, a distance of 1,567.71 feet to an iron pipe set in concrete found for the most southerly corner of the George A. Harrison Survey, Abstract 652, and being the most easterly corner of a 113 acre tract conveyed to Dallas Hunting and Fishing Club in Volume 318 Page 491 Dallas County Deed Records;

Thence N 68°28'23" W, a distance of 1,320.41 feet with a barb wire fence and with the easterly line of said 113 acre tract and being the westerly line of a 572 acre tract conveyed to T.A. Martin in Volume 2559, Page 54 Dallas County Deed Records to a 5/8 inch iron pin set for an angle point in said fence;

Thence N 64°07'10" W, a distance of 1,460.72 feet with said fence and with the easterly line of said 113 acre tract also being the westerly line of said T.A. Martin Tract to a 5/8 inch iron pin set for corner;

Thence N 45°16'51" E, a distance of 4712.26 feet with the northwesterly line of said T.A. Martin tract to a 5/8 inch iron pin found for angle point in the centerline of Jordan Valley

19151

Road at its intersection with the centerline of Middlefield Rd.;

Thence N 45°02'43" E, a distance of 5,410.00 feet with the northwest line of said T.A. Martin tract also being the centerline of Jordan Valley Rd. to a 5/8 inch iron pin set for corner;

Thence S 45°28'22" E at 37 feet passing a fence corner on the westerly line of a 30.17 acre tract conveyed to Frances Kanaman in Volume 67081, Page 0495, continuing with said fence also being the southwesterly line of said Kanaman tract and being the northeasterly line of said T.A. Martin tract, a total distance of 1323.10 feet to a 5/8 inch iron rod set for angle point at a fence corner, said fence corner being the most southerly corner of said Kanaman Tract and being the northwesterly corner of a 63 acre tract conveyed to Wesco Materials December 4, 1963;

Thence S 45°12'35" E, a distance of 1241.56 feet continuing with said fence being a common line between said T.A. Martin tract and said Wesco Materials Co. 63 acre tract to a railroad iron found for the most northerly corner of a 622 acre tract conveyed to the City of Dallas in Volume 5790, Page 196;

Thence S 44°58'23" E, a distance of 453.05 feet with the southwesterly line of said Wesco 63 acre tract and being a northeasterly line of said City of Dallas 622 acre tract to a 1" iron pipe set for corner at the most southerly corner of said Wesco tract;

Thence N 45°00'26" E, a distance of 904.99 feet with a common line of said Wesco tract and said City of Dallas 622 acre tract, to a Railroad iron found for corner;

Thence S 44°58'23" E, a distance of 1785.52 feet to a 1 inch iron pin found on the southwest line of a 50'drainage easement and being the most southerly corner of Rich Acres Addition;

Thence N 45°33'45" E, a distance of 2,540.86 feet with the southeast line of Rich Acres Addition to a 1/2 inch iron pin found for corner on the southwest line of Foothill Rd., a variable width R.O.W.;

Thence the following bearings and distances with said R.O.W. of Foothill Rd.;

S 36°44'42" E, a distance of 32.45 feet to a 1/2 inch iron rod found;

N 47°32'50" E, a distance of 61.28 feet to a 1/2 inch rod

19151

found for corner;

N 89°47'50" E, a distance of 114.85 feet to a 5/8 inch iron rod found;

S 40°48'17" E, a distance of 67.40 feet to a 5/8 inch iron rod found on the westerly R.O.W. of Beltline Rd. a 100 foot R.O.W.;

Thence S 4°52'44" W, a distance of 1427.72 feet with said R.O.W. of Beltline Rd. to a 5/8 inch iron rod set for the beginning of a curve to the left, which has a radius of 1196.20 feet and a central angle of 14°18'34";

Thence with said curve, a distance of 298.75 feet to a 5/8 inch iron rod set on the westerly R.O.W. line of Beltline Rd. and the northerly R.O.W. line of Log Cabin Rd. a 45 foot R.O.W.;

Thence the following bearings and distances with the R.O.W. lines of Log Cabin Road as conveyed in Volume 2266, Pages 107 and 109 Dallas County Deed Records;

S 77°34'21" W, a distance of 503.66 feet to a 5/8 inch iron rod set;

S 6°01 21" W, a distance of 47.44 feet to a 5/8 inch iron and set;

N 77°34'21" E, a distance of 454.49 feet to a 3/8 inch iron rod found;

S 59°08'42" E, a distance of 86.08 feet to a 5/8 inch iron rod set on the westerly R.O.W. of Beltline Rd. and for the beginning of a curve to the left with a radius of 1196.2 and a central angle of 5°38'41";

Thence with said curve and with the westerly R.O.W. of Beltline Rd., a distance of 117.85 feet to a 5/8 inch iron rod set for the end of said curve;

Thence S 20°03'36" E, a distance of 605.53 feet with the westerly R.O.W. of Beltline Rd. to a 2" iron pipe found for corner;

Thence S 48°27'04" W, a distance of 76.04 feet with said R.O.W. to a 1 1/2 inch iron pipe found for corner;

Thence S 44°24'15" E, a distance of 153.23 feet to a 5/8 inch iron rod set for the beginning of a curve to the right which has a radius of 1379.78 feet and a central angle of 31°04'05";

Thence with said curve and along said R.O.W. of Beltline Rd., a distance of 748.17 feet to a 5/8 inch iron rod set for the end of said curve;

Thence S 17°01'16" W, a distance of 749.72 feet along said R.O.W. of Beltline Rd. to a point on the City of Dallas Corporation Line also being the south line of Abstract 650;

Thence S 45°00'00" W, a distance of 2024.96 feet with said corporation line to a point for corner;

Thence N 17°01'16" E, a distance of 2538.00 feet with said corporation line 1000 feet from and parallel with the centerline of Beltline Rd. to a point for the beginning of a curve to the left with a radius of 429.78 feet and a central angle of 87°04'52";

Thence with said curve, a distance of 278.15 feet concentric with and 1000 feet from the centerline of Beltline Rd.;

Thence N 20°03'36" W, a distance of 955.47 feet with said corporation line 1000 feet from and parallel with the centerline of Beltline Rd. to a point in the centerline of Log Cabin Rd.;

Thence S 77°33'02" W, a distance of 647.10 feet with the centerline of Log Cabin Rd. also being said corporation line, to an "X" in concrete found for the southeasterly corner of the George A. Harrison Survey, Abstract 651;

Thence S 45°00'00" W, a distance of 9,359.46 feet with the southeasterly line of Abstract 651 also being said corporation line to a railroad iron found on the east bank of the Trinity River;

Thence the following bearings and distances with the east bank of the Trinity River;

N 58°18'28" W, 93.49 feet to iron pin found for corner;

N 49°04'44" W, 69.61 feet to iron pin found for corner;

N 57°04'40" W, 166.25 feet to iron pin found for corner;

N 57°51'58" W, 191.26 feet to iron pin found for corner;

N 63°02'23" W, 391.4 feet to iron pin found for corner;

N 43°35'28" W, 135.12 feet to iron pin found for corner;

N 65°42'36" W, 155.3 feet to iron pin found for corner;
N 56°52'54" W, 258.34 feet to iron pin found for corner;
N 66°33'39" W, 547.41 feet to iron pin found for corner;
S 78°23'25" W, 147.44 feet to iron pin found for corner;
S 54°02'54" W, 242.13 feet to iron pin found for corner;
S 63°44'26" W, 222.71 feet to iron pin found for corner;
S 46°08'21" W, 108.45 feet to iron pin found for corner;
S 32°55'23" W, 220.04 feet to iron pin found for corner;
S 46°39'14" W, 208.83 feet to iron pin found for corner;
S 41°06'01" W, 231.76 feet to iron pin found for corner;
S 54°36'55" W, 150.09 feet to iron pin found for corner;
N 55°04'56" W, 217.8 feet to iron pin found for corner;
N 61°47'22" W, 199.14 feet to iron pin found for corner;

N 57°02'10" W, 185.92 feet to the Point of Beginning, and containing 1311.5642 acres of land, save and except 6.267 acres of land for the proposed R.O.W. of Jordan Valley Rd.

SECTION 2. That this specific use permit is granted upon the following conditions:

- 1. SITE PLAN: Utilization of the Property must be in accordance with the site plan that is attached to and made a part of this ordinance. Any movement of structures which does not increase floor area or violate the setbacks is considered a minor amendment.
- 2. LANDSCAPE PLAN: A landscape plan which conforms to the site plan must be submitted to the city plan commission within six months of the passage of this ordinance. All landscaping must be installed within eighteen months of the

approval of the landscape plan. All plant materials must be maintained in a healthy, growing condition at all times.

- 3. <u>USE</u>: Use of the Property is limited to a sewage treatment plant with related municipal facilities.
- 4. <u>FLOOR AREA</u>: The maximum permitted total floor area for all structures on the Property combined is 2,700,650 square feet.
- 5. <u>HEIGHT</u>: The maximum height for the building identified on the attached site plan as the "Administration Building" is 75 feet. The maximum height for all other structures on the Property is 40 feet.
- 6. SETBACKS: All structures and landfill applications must be set back a minimum of 500 feet from the northern and eastern boundary lines of the Property.
- 7. <u>TIME PERIOD</u>: This specific use permit has no expiration date.
- 8. MAINTENANCE: The entire premises must be properly maintained in a state of good repair and neat appearance at all times.
- 8.5 REPORTING REQUIREMENTS: In order to keep the city council fully apprised of the status of studies, design, and construction activities on the Property, the department of water utilities shall make a regular report to the city council. The first report is due within three months of the date of passage of this ordinance with subsequent reports due quarterly thereafter until otherwise directed by the city council. The reports must include the status of:
 - (a) Odor control.
 - (b) Landscaping.
 - (c) Public facilities and parks.
 - (d) Flood plain removal.
- 9. <u>SIGNS</u>: All signs must comply with the provisions for non-business districts set forth in the Dallas Development Code, as amended.

10. GENERAL REQUIREMENTS: Utilization of the Property must be in compliance with all other applicable codes and regulations of the City of Dallas.

SECTION 3. That all paved areas, permanent drives, streets, and drainage structures, if any, must be constructed in accordance with standard City of Dallas specifications, and completed to the satisfaction of the director of public works.

SECTION 4. That the building official shall not issue a certificate of occupancy for a use on the Property until there has been full compliance with this ordinance and with the construction codes and all other applicable ordinances, rules, and regulations of the City of Dallas.

SECTION 5. That the director of planning and development shall correct Zoning District Map Nos. P-11, P-12, and Q-11 in the offices of the city secretary, the building official, and the department of planning and development to reflect the changes in zoning made by this ordinance.

SECTION 6. That a person who violates a provision of this ordinance, upon conviction, is punishable by a fine not to exceed \$1000.

SECTION 7. That CHAPTER 51 of the Dallas City Code, as amended, shall remain in full force and effect, save and except as amended by this ordinance.

SECTION 8. That the terms and provisions of this ordinance are severable and are governed by Sections 1-4 of CHAPTER 1 of

the Dallas City Code, as amended.

SECTION 9. That this ordinance shall take effect immediately from and after its passage and publication in accordance with the provisions of the Charter of the City of Dallas and it is accordingly so ordained.

APPROVED AS TO FORM:

ANALESLIE MUNCY, City Attorney

By Mark &	0		
Assistant	City	Attorney	

Passed and correctly enrolled

MAY 7 1986

Zoning File No. 2856-169/6682-S

5357H



MISCELLANEOUS DOCKET ITEM

CITY PLAN COMMISSION

THURSDAY, OCTOBER 23, 1986

Landscape Plan for SUP #84
Z856-169/6682-S Log Cabin Road, South of Jordan Valley Road &
West of South Belt Line Road

On May 7, 1986, the City Council approved an application by Dallas Water Utilities for an amendment to and the expansion of Specific Use Permit #84 for a Sewage Treatment Plant on property presently zoned an Agricultural District at the above location.

Among the conditions of the ordinance is a requirement that a landscape plan which conforms to the site plan must be submitted to the City Plan Commission within six months of the passage of the ordinance.

In conjunction with the above requirement, a landscape plan has been prepared by Albert H. Halff Associates, Inc., composed of approximately 56 drawings and submitted for Plan Commission consideration.

Due to the excessive number of drawings, the staff has chosen to show one copy of the plan in the docket that indicates how the points are earned along with another page outlining the points actually earned. The plan achieves 55 points although only 30 points are required by the Landscape Ordinance. A full size copy of all the drawings will be available for the Plan Commission to review at its meeting on October 23. Further, a colored illustration of the plan will be shown to the Plan Commission by the applicant at the time of the meeting.

In preparing the plan, numerous meetings have been held with residents of the neighboring community. It is the staff's understanding that the people who reside in the area near the Sewage Treatment Plant are exceedingly pleased with the proposal.

In addition to exceeding the required number of points, the applicant has planned the landscape so that seasonal color will be evident throughout the year.

Staff recommends approval of the landscape plan in its entirety.

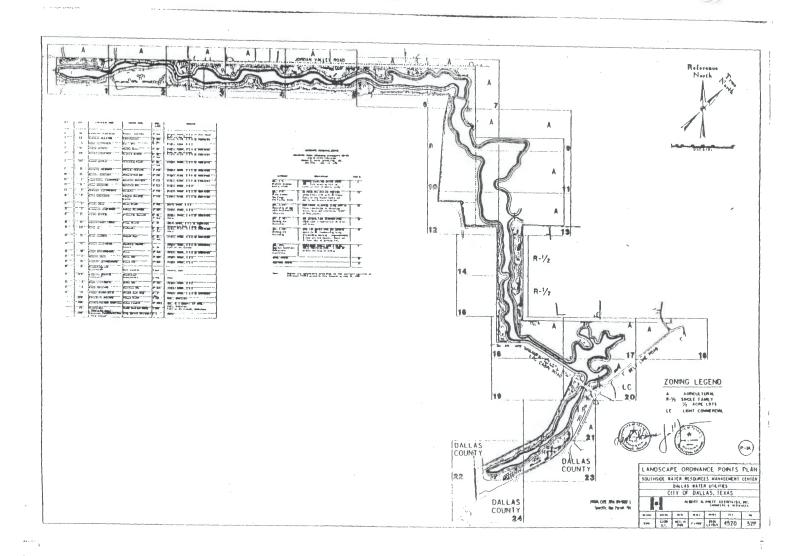
CPC approved plans 10-23-86

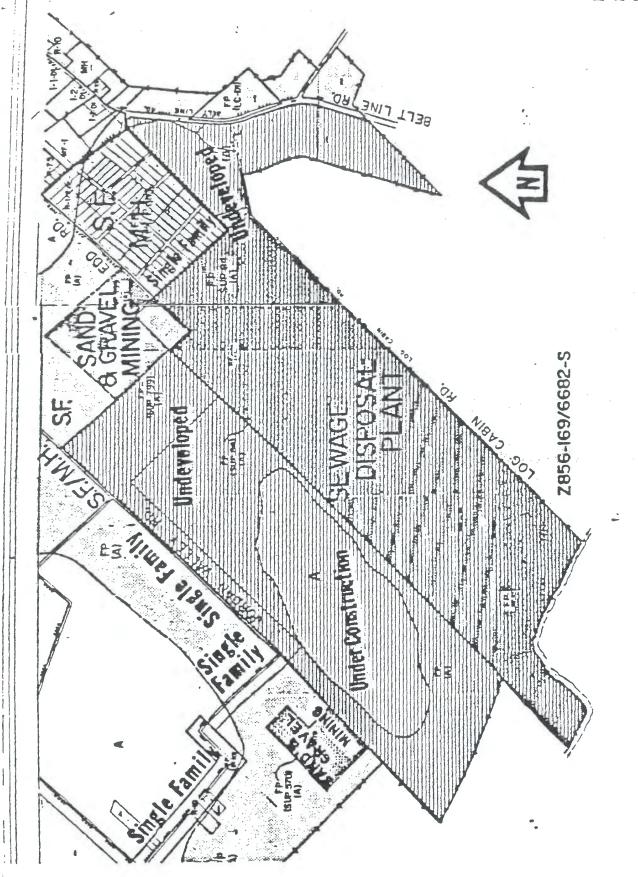
LANDSCAPE ORDINANCE POINTS

SOUTHSIDE WATER RESOURCES MANAGEMENT CENTER DALLAS WATER UTILITIES ALBERT H. HALFF ASSOCIATES, INC. AVO 8596 OCT. 10, 1986

CATEGORY	DESCRIPTION	POINTS	
Sec. 7-3: Minimum Average Buffer Width	Minimum landscape buffer width 500 from property line to fence at rear of buffer strip	5	
Sec. 7-4F: Plant Groups- Two Large Non-Canopy Trees	At least two Eastern Redcedar along fence with each 50 linear feet, or one Deodar Cedar and one to two Eastern Redcedar	15	
Sec. 7-5-a: Screening of Lot with Residential Adjacency	Continuous screening along rear of fence consisting of evergreen trees, berm and continuous "wall" of Honeysuckle	10	
Sec. 7-5-b: Parking Lot Screening	All parking lots screened from roads with a combination of trees and berms.	10	
Sec. 7-5-c: Parking Lot Screening	Over 180 square feet per parking space in 20° landscaping strip surrounding parking. Approximately 1 tree per 3-4 spaces. Trees are 3° from edge of parking lot.	10	
Sec. 8-f: Special Amenities Pedestrian Facilities	Contimious linear lake = 79 Ac. Total Southside WRMC = 1400 Ac. Within the City of Dallas	5	
TOTAL POINTS		55	
REQUIRED POINTS		30	

Note: Points are calculated according to the revised version of Ordinance #1896 8 passed by City Council on July 16, 1986





ATTACHMENT U

Pollutant Concentrations in Sewage Sludge

(Appendix A)

Appendix A Pollutant Concentrations in Sewage Sludge

Complete this table for each source of sludge.

Facility Name: Southside Wastewater Treatment Plant

TCEQ Authorization Number: WQ0010060006

POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As) ¹	75	4.5	2/27/2019	1.5	EPA 6010
Cadmium (Cd) ¹	85	1.6	2/27/2019	0.28	EPA 6010
Chromium (Cr)	3000	47.8	2/27/2019	3	EPA 6010
Copper (Cu)	4300	422	2/27/2019	3.3	EPA 6010
Lead (Pb)	840	33.2	2/27/2019	1.3	EPA 6010
Mercury (Hg)	57	0.28	2/27/2019	0.024	EPA 7471
Molybdenum (Mo) ¹	75	16	2/27/2019	3.1	EPA 6010
Nickel (Ni)	420	22.5	2/27/2019	0.92	EPA 6010
Selenium (Se)	100	12.4	2/27/2019	4.4	EPA 6010
Zinc (Zn)	7500	686	2/27/2019	4.7	EPA 6010
PCB (ppm) ^{2, 3}	50.0 ppm	< 0.37 ²	2/27/2019	< 0.38 3	EPA 8082
Fecal Coliform (MPN) ⁴		4.06E+04	2/27/2019	< 1	SM 9223B

Footnotes:

- 1 As, Cd, Mo are J flagged estimated values, > MDL but < RL of the contract laboratory.
- 2 PCB Used 1/2 the MDL value for $\,$ "< " values $\,$ in the calculated average. Per TCEQ, TSWQS-ip doc RG-194.
- 3 PCB Lowest detection limit of all PCBs tested.
- 4 Geomean

Rainee Trevino

From: Tynes, Conner < Conner. Tynes@dallas.gov>

Sent: Friday, December 6, 2024 1:56 PM

To: Rainee Trevino
Cc: Creeks, Clifford

Subject: RE: WQ0010060006 Renewal Application Request - NORI

The applicant should be the City of Dallas, and the representative should be Mr. Zachary Peoples. Thank you.



Conner Tynes, P.E.

Engineer Assistant
City of Dallas | DallasCityNews.net
Dallas Water Utilities - SWWTP
10011 Log Cabin Rd

Dallas, TX 75253

O: (214) 671-0926 | C: (903) 754-7741

conner.tynes@dallas.gov







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From: Rainee Trevino < Rainee. Trevino@tceq.texas.gov>

Sent: Friday, December 6, 2024 1:51 PM

To: Tynes, Conner < Conner. Tynes@dallas.gov> **Cc:** Creeks, Clifford < clifford.creeks@dallas.gov>

Subject: RE: WQ0010060006 Renewal Application Request - NORI

External Email!

Good afternoon,

I have received the translated Spanish NORI.

I want to verify the applicant representative. In the English NORI, we have the representative listed as Zachary Peoples whereas in the Spanish NORI it is listed as Nosa Irenumaagho. Please advise which individual should be listed. The deadline for a complete response is today.

Regards,

Rainee Trevino

Water Quality Division | ARP Team Texas Commission on Environmental Quality 512-239-4324



From: Tynes, Conner < Conner. Tynes@dallas.gov>

Sent: Friday, December 6, 2024 10:06 AM

To: Rainee Trevino < <u>Rainee.Trevino@tceq.texas.gov</u>> **Cc:** Creeks, Clifford < clifford.creeks@dallas.gov>

Subject: WQ0010060006 Renewal Application Request - NORI

Good morning,

I'm providing the response and attachment from the recent request to verify and translate the NORI for the City of Dallas Renewal Application WQ0010060006.

- 1. The English portion is correct and ready for publishing.
- 2. The Spanish NORI is attached.

Thank you.



Conner Tynes, P.E.
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