Administrative Package Cover Page

This file contains the following documents:

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

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES PERMIT APPLICATIONS

Summary of Application (in plain language) for Texas Pollutant Discharge Elimination System (TPDES) Permit Applications

ENGLISH SUMMARY FOR TPDES RENEWAL APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER

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

The City of Paris (CN600632269) operates the City of Paris wastewater treatment plant (RN101920767), a activated sludge process plant operated in the complete mix mode. The facility is located approximately 1.7 miles northeast of the intersection of Farm -to-Market Road 1499 and U.S. Highway 271, in Paris, Lamar County, Texas 75460. This application is for a renewal to discharge at an average daily flow of 7.25 million gallons per day (MGD) and a peak 2-hour flow (P2HF) of 12,042 gallons per minutes (gpm) via a 24-inch Parshall flume into Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7 of the Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. The City of Paris Wastewater Treatment Plant, TPDES Permit No. WQ0010479002, receives domestic wastewater flow from the off-site master lift station and enters the WWTP site at an unused grit removal facility. From the grit facility, flow may either go through fine screens to the trickling filter pump station and trickling filters or may go directly to the aeration basin splitter structure which has a coarse screen. There are two orbital aeration basins that have five raceways each; however, the outermost raceway (Raceway 1) is isolated and used for solids digestion instead of aeration. Following aeration and final clarification, effluent flow goes through a Parshall flume, chlorine contact basin, then discharges to Hicks Creek.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES RENOVACIONES TPDES
AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

La Ciudad de Paris (CN600632269) opera la planta de tratamiento de aguas residuales de la Ciudad de Paris (RN101920767), una planta de procesamiento de lodos activados que opera en el modo de mezcla completa. La planta de tratamiento esta ubicada aproximadamente 1.7 millas al noreste de la intersección de Farm-to-Market Road 1499 y U.S. Highway 271 en la Ciudad de Paris, Condado de Lamar, Texas 75460. Esta solicitud es para una renovación para descargar a un flujo diario promedio de 7.25 millones de galones por día (MGD) y un flujo máximo de 2 horas a 12,042 galones por minuto (GPM) a través de un canal Parshall de 24 pulgadas en el desagüe 001.

Se espera que las descargas de la planta de tratamiento contengan una demanda de oxígeno bioquímico carbónico de cinco días (CBOD5), solidos suspendidos totales (TSS), nitrógeno de amonio (NH3-N), y Escherichia coli. En la sección 7 del Informe Técnico Domestico 1.0 se incluyen otros contaminantes potenciales. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Domestica 4.0 se encuentran en el paquete de solicitud de permiso. La planta de tratamiento de aguas residuales de la Ciudad de Paris, permiso numero WQ0010479002 del TPDES, recibe el flujo de aguas residuales domesticas de la estación de bombeo principal que esta ubicada fuera de área de la planta e ingresa a la planta de tratamiento por una instalación de arenilla no utilizada. Desde la instalación de arenilla, el flujo de aguas residuales puede pasar a través de cribas finas a la estación de bombeo de filtro precolador y a los filtros percoladores o puede ir directamente a la estructura del divisor de la cuenca de aireación que tiene una criba gruesa. Hay dos cuencas de aireación orbital que tienen cinco pistas de rodadura cada una; sin embargo, la pista de rodadura mas externa (Pista de rodadura 1) esta aislada y se utiliza para la digestión de solidos en lugar de la aireación. Después de la aireación y la clarificación final, el flujo de aguas residuales tratadas pasa a través de un canal de Parshall, una cuenca de contacto con cloro, y luego se descarga en Hicks Creek.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010479002

APPLICATION. City of Paris, P.O. Box 9037, Paris, Texas 75461, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010479002 (EPA I.D. No. TX0027910) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 7,250,000 gallons per day. The domestic wastewater treatment facility is located approximately 1.7 miles northeast of the intersection of Farm-to-Market Road 1499 and U.S. Highway 271, near the city of Paris, in Lamar County, Texas 75460. The discharge route is from the plant site to Hicks Creek; thence to Pine Creek; thence to Red River Below Lake Texoma. TCEQ received this application on January 8, 2025. The permit application will be available for viewing and copying at Paris City Hall Annex, 150 1st Street Southeast, Paris, in Lamar 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=-95.533333,33.761111&level=18

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

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Paris at the address stated above or by calling Ms. Kenda Fortner, Environmental Services Supervisor, at 903-784-2464.

Issuance Date: January 21, 2025

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. WQ0010479002

SOLICITUD. La Ciudad de Paris, P.O. Box 9037, Paris, Texas 75461 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010479002 (EPA I.D. No. TX 0027910) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 7,250,000 galones por día. La planta está ubicada aproximadamente a 1.7 millas al noreste de la intersección de Farm-to-Market Road 1499 y U.S. Highway 271 en la Ciudad de Paris en el Condado de Lamar, Texas. La ruta de descarga es del sitio de la planta al Arroyo Hicks; después al Arroyo Pine, y después al Rio Rojo por debajo del Lago Texoma. La TCEQ recibió esta solicitud el 8 de Enero del 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Paris City Hall Annex, 150 1st Street Southeast, Paris, en el Condado de Lamar, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud, incluidas las actualizaciones, y los avisos asociados están disponibles en formato electrónico en al siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.533333,33.761111&level=18

Para más información diríjase a la Ciudad de Paris, en la dirección indicada arriba o llamando a la Sra. Kenda Fortner, Supervisora de Servicios Medioambientales, al 903-784-2464.

Fecha de emission: 21 de enero de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 8, 2025

Re: Confirmation of Submission of the Minor Amendment with Renewal for Public Domestic Wastewater Authorization.

Dear Applicant:

This is an acknowledgement that you have successfully completed Minor Amendment with Renewal for the Public Domestic Wastewater authorization.

ER Account Number: ER110227
Application Reference Number: 743493
Authorization Number: WQ0010479002
Site Name: City of Paris WWTP
Regulated Entity: RN101920767 - City of Paris Wastewater Treatment Plant
Customer(s): CN600632269 - City of Paris

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

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

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0010479002

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CITY OF PARIS WWTP
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	LOCATED APPROX 1.7 MI NE OF THE INTERX OF FM 1499 AND US HWY 271
City	PARIS
State	TX
ZIP	75460
County	LAMAR
Latitude (N) (##.######)	33.761111
Longitude (W) (-###.######)	-95.533333
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN101920767
What is the name of the Regulated Entity (RE)?	CITY OF PARIS WASTEWATER TREATMENT PLANT
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	1.7 MILES NE FMR 1499 AND US HWY 271 SIX MILES NORTH OF THE CITY OF PARIS IN LAMAR COUNTY
City	PARIS
State	TX
ZIP	75460
County	LAMAR
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

City of-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600632269
Type of Customer	City Government
Full legal name of the applicant:	
Legal Name	City of Paris
Texas SOS Filing Number	
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	21-100
Independently Owned and Operated?	No
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	City of Paris
Prefix	MR
First	DANNY
Middle	
Last	ROWELL
Suffix	
Credentials	
Title	INTERIM DIRECTOR OF UTILITIES
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037
Routing (such as Mail Code, Dept., or Attn:)	
City	PARIS
State	TX
ZIP	75461
Phone (###-###-####)	9037842464
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9037844809
E-mail	DROWELL@PARISTEXAS.GOV

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600632269, City of Paris
Organization Name	CITY OF PARIS
Prefix	MR
First	Gene
Middle	
Last	Anderson
Suffix	
Credentials	
Title	Director of Finance
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037
Routing (such as Mail Code, Dept., or Attn:)	
City	PARIS
State	TX
ZIP	75461
Phone (###-###-####)	9037857511
Extension	1241
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	GANDERSON@PARISTEXAS.GOV

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CITY OF PARIS
Prefix	MR
First	DANNY
Middle	
Last	ROWELL
Suffix	
Credentials	
Title	INTERIM DIRECTOR OF UTILITIES
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037

Routing (such as Mail Code, Dept., or Attn:)	
City	PARIS
State	TX
ZIP	75461
Phone (###-###-####)	9037842464
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9037844809
E-mail	DROWELL@PARISTEXAS.GOV

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	CITY OF PARIS
Prefix	MS
First	KENDA
Middle	
Last	FORTNER
Suffix	
Credentials	
Title	ENVIRONMENTAL SERVICES SUPERVISOR
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037
Routing (such as Mail Code, Dept., or Attn:)	
City	PARIS
State	TX
ZIP	75461
Phone (###-###-####)	9037842464
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9037844809
E-mail	KFORTNER@PARISTEXAS.GOV

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	CN600632269, City of Paris
Organization Name	City of Paris
Prefix	MR
First	DANNY
Middle	
Last	ROWELL
Suffix	
Credentials	
Title	INTERIM DIRECTOR OF UTILITIES
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037
Routing (such as Mail Code, Dept., or Attn:)	
City	PARIS
State	TX
ZIP	75461
Phone (###-###-####)	9037842464
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	9037844809
E-mail	DROWELL@PARISTEXAS.GOV

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	CN600632269, City of Paris
2) Organization Name	City of Paris
3) Prefix	MR
4) First	DANNY
5) Middle	
6) Last	ROWELL
7) Suffix	
8) Credentials	
9) Title	INTERIM DIRECTOR OF UTILITIES
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037

11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	PARIS
11.4) State	TX
11.5) ZIP	75461
12) Phone (###-###-####)	9037842464
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	DROWELL@PARISTEXAS.GOV

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	CITY OF PARIS
3) Prefix	
4) First	Josh
5) Middle	
6) Last	Hart
7) Suffix	
8) Credentials	
9) Title	WASTEWATER TREATMENT PLANT SUPERINTENDENT

Mailing Address

10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 9037
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	PARIS
11.4) State	TX
11.5) ZIP	75461
12) Phone (###-###-####)	9037842464
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	jhart@paristexas.gov

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	CITY OF PARIS
4) Mailing Address	PO Box 9037
5) City	Paris
6) State	TX
7) Zip Code	75461
8) Phone (###-###-####)	9037842464
9) Extension	
10) Email	DROWELL@PARISTEXAS.GOV
11) What is ownership of the treatment facility?	Public
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	CITY OF PARIS
15) Mailing Address	PO Box 9037
16) City	Paris
17) State	TX
18) Zip Code	75461
19) Phone (###-###-####)	9037842464
20) Extension	
21) Email	DROWELL@PARISTEXAS.GOV
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	07/09/2025
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Minor Amendment with Renewal
4.1) Describe the proposed changes:	Approval for construction Paris Phase 1 WWTP Improvements TPDES Permit No. WQ0010479-002 WWRP Log No. 0422/027 CN 600632269, RN 101920727 was received on June 7, 2022. This approval for construction included conditional approval of the buffer variance provided the measures cited by the engineer are effective in reducing the transmission of odors

5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	7.25
5.2) Select the applicable fee	>= 1.0 MGD - Renewal - $2,015
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0027910
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	PARIS
6.5) County where the outfalls are located:	LAMAR
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	Yes
6.7.1) Provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge:	LAMAR|RED RIVER|BOWIE
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Janice Ellis
3) Credential	
4) Title	City Clerk
5) Organization Name	CITY OF PARIS
6) Mailing Address	PO BOX 9037
7) Address Line 2	
8) City	PARIS
9) State	TX
10) Zip Code	75461
11) Phone (###-###-####)	9037842464
12) Extension	
13) Fax (###-###-####)	
14) Email	jellis@paristexas.gov

Contact person to be listed in the Notices

15) Prefix	
16) First and Last Name	Kenda Fortner
17) Credential	
18) Title	Environmental Services Supervisor

19) Organization Name	
20) Phone (###-###-####)	9037842464
21) Fax (###-###-####)	
22) Email	kfortner@paristexas.gov

Bilingual Notice Requirements

23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	LAMAR
2) Public building name	City of Paris City Hall Annex
3) Location within the building	
4) Physical Address of Building	150 SE 1st St.
5) City	Paris
6) Contact Name	Janice Ellis
7) Phone (###-###-####)	9037857511
8) Extension	1248
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_20972.pdf
Hash	988F024ED6E4323B74413143093E7C9502427BAD13AF48054E11091F87C58D59
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_SPIF.pdf
Hash	03F14D4C1F73F6DE93F5B25B2B519A6E967D88D0374BD2CA5686D842A9CEC278
MIME-Type	application/pdf

Domestic Attachments

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

[File Properties]

File Name	MAP_Attachment B-USGS Map.pdf
Hash	713E390677B061FC8594F179BB2FFA8D3309CE599C1C1FA7D7C2B20FFDEC52FE
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
2.2) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	Yes
2.3) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	Yes
2.4) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
2.5) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

2.6) Technical Attachment

[File Properties]

File Name	TECH_Technical Attachment.pdf
Hash	A2F399CF689199346CC9DC9B363FA2FA37B9474FF714D6ADA8BA360B2FEBBF12
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Buffer Zone.pdf
Hash	B585CFF1DF34C539F02058B4BC58CD639255FF5AFF2898D0D366F1F3654E072B
MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_Flow Diagram.pdf
Hash	35A031C071310816B062144BEE598DE4A18747AC026DFC9F98B7030EE9F3619F

MIME-Type	application/pdf
5) Site Drawing	
[File Properties]	
File Name	SITEDR_Site Drawing.pdf
Hash	71F193C1BAB2E7E0F7A473CD20BE2055B089BA53407C5F74D58A697D4EEFCF4D
MIME-Type	application/pdf
6) Design Calculations	
[File Properties]	
File Name	DES_CAL_Design Calculations.pdf
Hash	115504E3FDCC0823A91FED49EB4142009AC95629F1A74A8A0340FFDF98FD66D7
MIME-Type	application/pdf
7) Solids Management Plan	
8) Water Balance	
[File Properties]	
File Name	WB_Water Balance Submission not applicable to this renewal.docx
Hash	CBF3D9ED1197DDEA27AFDB1036BD13969A8A66D6EA5CB52715C0E8640BEFAEDB
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document
9) Other Attachments	
[File Properties]	
File Name	OTHER_TCEQ Approval Letter - Paris WWTP.pdf
Hash	5C6702C01D6B244A41AD2B746F6A1DFA2CD03712AA1C56C178730D3391422E56
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Testing Data.pdf
Hash	122F58277875C07DFFC11246DE0182E52D7094A0D0C9951B10C32B959A925AC3
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Process Description.pdf
Hash	F7CE3838EBCFEF612ED5894FD3FEA2487712CFF5FF5295627A008FF40E6DC79F
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_Sludge Attachment.pdf
Hash	5D27E0EC53F55B80D1B99F7C3BCD83DD31095BF9985A8EE5A114124F31FC4F13

MIME-Type	application/pdf

[File Properties]

File Name	OTHER_Core Data Form Attachment.pdf
Hash	9999AD062404A62E907F6D300509F1ED8B74C8FAB25F1DCF47647DF71B8A960C
MIME-Type	application/pdf

Certification

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

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

1. I am Danny Rowell, the owner of the STEERS account ER107572.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0010479002.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Danny Rowell OWNER

Customer Number:	CN600632269
Legal Name:	City of Paris
Account Number:	ER107572
Signature IP Address:	104.184.141.81
Signature Date:	2025-01-08
Signature Hash:	F675C38BA64D8B98C4636FA5E32D23E6F342987D35476CFD0F8CD44C22642022
Form Hash Code at time of Signature:	B481B00C8295568E4B83666124D3F958E729BFFBFB6B35BC014AB3A0E238DE54

Fee Payment

Transaction by:	The application fee payment transaction was made by ER110227/Samuel E Gentry
Paid by:	The application fee was paid by SAMUEL EVAN GENTRY
Fee Amount:	$2000.00
Paid Date:	The application fee was paid on 2025-01-08
Transaction/Voucher number:	The transaction number is 582EA000642813 and the voucher number is 740006

Submission

Reference Number:	The application reference number is 743493
Submitted by:	The application was submitted by ER110227/ Samuel E Gentry
Submitted Timestamp:	The application was submitted on 2025-01-08 at 16:33:56 CST
Submitted From:	The application was submitted from IP address 104.184.141.81
Confirmation Number:	The confirmation number is 617354
Steers Version:	The STEERS version is 6.85
Permit Number:	The permit number is WQ0010479002

Additional Information

Application Creator: This account was created by Samuel E Gentry

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600632269		**RN 101920767**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	01/01/2025

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

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

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

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0050883501	30004866759	576000635	079333845

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees	**13. Independently Owned and Operated?**
☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☒ **Yes** ☐ **No**

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

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

15. Mailing Address:	PO Box 9037							
	City	Paris	**State**	TX	**ZIP**	75461	**ZIP + 4**	9037

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(903) 785-7511		( ) -

SECTION III: Regulated Entity Information

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

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

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

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

City of Paris Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	HWY 271 North							
	City	Paris	**State**	TX	**ZIP**	75460	**ZIP + 4**	
24. County	LAMAR							

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

25. Description to Physical Location:	1.7 MILES NE FMR 1499 AND US HWY 271 SIX MILES NORTH OF THE CITY OF PARIS IN LAMAR COUNTY				
26. Nearest City			**State**	**Nearest ZIP Code**	
Paris			TX	75460	

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
33	45	40	95	32	00

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4592		22132	

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

Wastewater Treatment

34. Mailing Address:	**PO Box 9037**							
	City	**Paris**	**State**	**TX**	**ZIP**	**75461**	**ZIP + 4**	**9037**
35. E-Mail Address:	**kfortner@paristexas.gov**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(903) 784-2464		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☒ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
720021	TXR05S131			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	TX0027910			

SECTION IV: Preparer Information

40. Name:	Justin Rackley	**41. Title:**	Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(214) 619-9013		( ) -	jarackley@garverusa.com

SECTION V: Authorized Signature

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

Company:	City of Paris	**Job Title:**	Interim City Manager	
Name *(In Print):*	Robert Vine		**Phone:**	(903) 784- **2464**
Signature:			**Date:**	01082025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES PERMIT APPLICATIONS

Summary of Application (in plain language) for Texas Pollutant Discharge Elimination System (TPDES) Permit Applications

ENGLISH SUMMARY FOR TPDES RENEWAL APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER

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

The City of Paris (CN600632269) operates the City of Paris wastewater treatment plant (RN101920767), a activated sludge process plant operated in the complete mix mode. The facility is located approximately 1.7 miles northeast of the intersection of Farm -to-Market Road 1499 and U.S. Highway 271, in Paris, Lamar County, Texas 75460. This application is for a renewal to discharge at an average daily flow of 7.25 million gallons per day (MGD) and a peak 2-hour flow (P2HF) of 12,042 gallons per minutes (gpm) via a 24-inch Parshall flume into Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7 of the Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. The City of Paris Wastewater Treatment Plant, TPDES Permit No. WQ0010479002, receives domestic wastewater flow from the off-site master lift station and enters the WWTP site at an unused grit removal facility. From the grit facility, flow may either go through fine screens to the trickling filter pump station and trickling filters or may go directly to the aeration basin splitter structure which has a coarse screen. There are two orbital aeration basins that have five raceways each; however, the outermost raceway (Raceway 1) is isolated and used for solids digestion instead of aeration. Following aeration and final clarification, effluent flow goes through a Parshall flume, chlorine contact basin, then discharges to Hicks Creek.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES RENOVACIONES TPDES
AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

La Ciudad de Paris (CN600632269) opera la planta de tratamiento de aguas residuales de la Ciudad de Paris (RN101920767), una planta de procesamiento de lodos activados que opera en el modo de mezcla completa. La planta de tratamiento esta ubicada aproximadamente 1.7 millas al noreste de la intersección de Farm-to-Market Road 1499 y U.S. Highway 271 en la Ciudad de Paris, Condado de Lamar, Texas 75460. Esta solicitud es para una renovación para descargar a un flujo diario promedio de 7.25 millones de galones por día (MGD) y un flujo máximo de 2 horas a 12,042 galones por minuto (GPM) a través de un canal Parshall de 24 pulgadas en el desagüe 001.

Se espera que las descargas de la planta de tratamiento contengan una demanda de oxígeno bioquímico carbónico de cinco días (CBOD5), solidos suspendidos totales (TSS), nitrógeno de amonio (NH3-N), y Escherichia coli. En la sección 7 del Informe Técnico Domestico 1.0 se incluyen otros contaminantes potenciales. Análisis de Contaminantes de Efluentes Tratados y Hoja de Trabajo Domestica 4.0 se encuentran en el paquete de solicitud de permiso. La planta de tratamiento de aguas residuales de la Ciudad de Paris, permiso numero WQ0010479002 del TPDES, recibe el flujo de aguas residuales domesticas de la estación de bombeo principal que esta ubicada fuera de área de la planta e ingresa a la planta de tratamiento por una instalación de arenilla no utilizada. Desde la instalación de arenilla, el flujo de aguas residuales puede pasar a través de cribas finas a la estación de bombeo de filtro precolador y a los filtros percoladores o puede ir directamente a la estructura del divisor de la cuenca de aireación que tiene una criba gruesa. Hay dos cuencas de aireación orbital que tienen cinco pistas de rodadura cada una; sin embargo, la pista de rodadura mas externa (Pista de rodadura 1) esta aislada y se utiliza para la digestión de solidos en lugar de la aireación. Después de la aireación y la clarificación final, el flujo de aguas residuales tratadas pasa a través de un canal de Parshall, una cuenca de contacto con cloro, y luego se descarga en Hicks Creek.

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

Attachment B: USGS Map

PAT MAYSE LAKE EAST QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

CAMP MAXEY

City of Paris Wastewater Treatment Plant Boundary

Point of Discharge

City of Paris Applicant Property Boundary

3 miles downstream

1.00 mi

SCALE 1:24 000

Produced by the United States Geological Survey

PARIS QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15S
10 000-foot ticks: Texas Coordinate System of 1983 (north central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
TT
Grid Zone Designation
15S

SCALE 1:24 000

1 KILOMETERS 0.5 0 1 2
1000 METERS 500 0 1000 2000
1 MILES 0.5 0 1
1000 FEET 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

1	2	3
4		5
6	7	8

1 Pat Mayse Lake West
2 Pat Mayse Lake East
3 Slate Shoals
4 Toco
5 Blossom
6 Roxton
7 Biardstown
8 Pattonville

ADJOINING QUADRANGLES

PARIS, TX
2016

Attachment D: Site Drawing

Legend

- City of Paris WWTP
- City of Paris City Limits

0 0.5 1 2 3 4 Miles

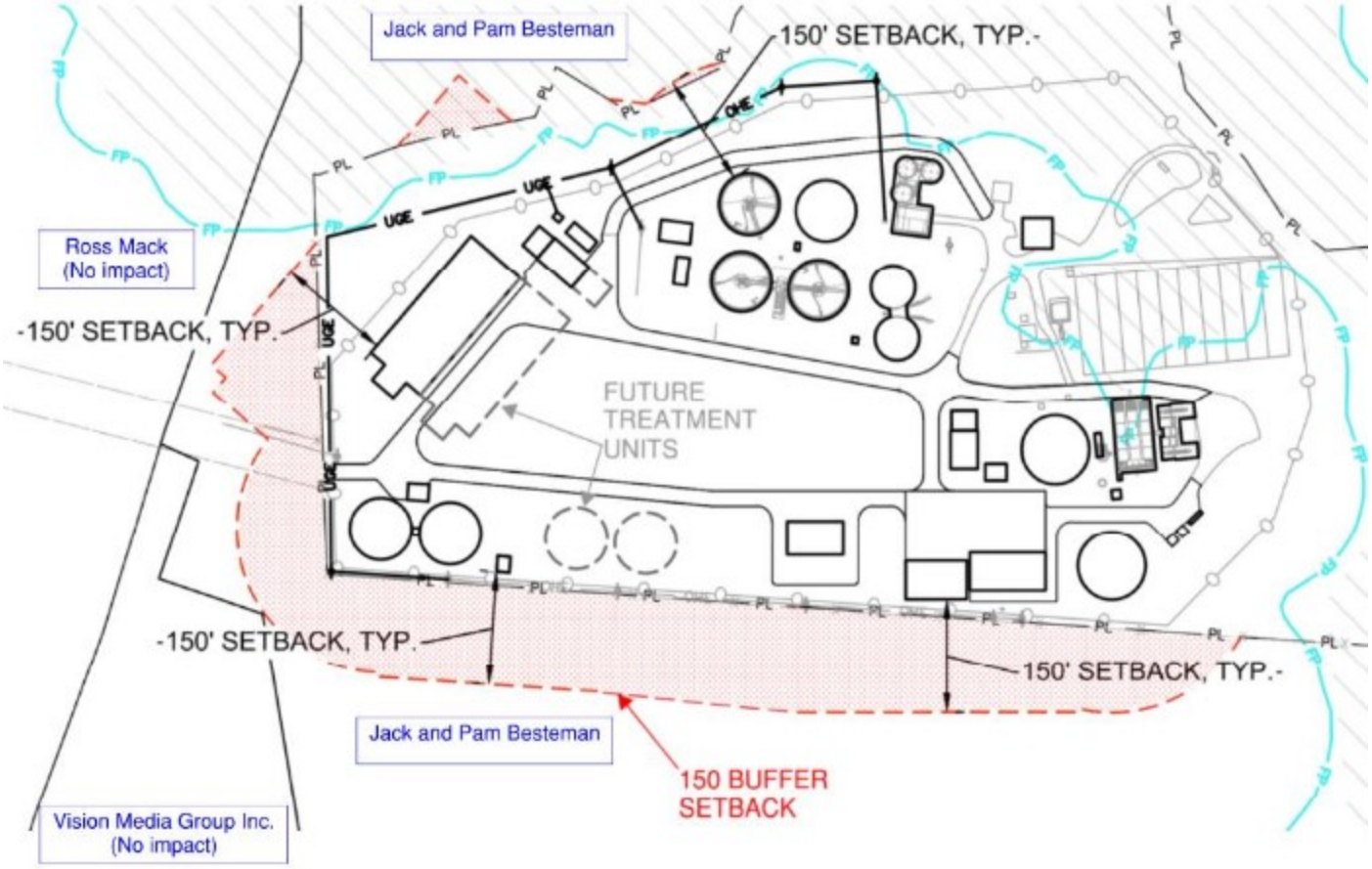
Treatment Facility Boundary

City of Toco Service Area

City of Paris Service Area

PARIS TEXAS	**City of Paris** 135 SE 1st Street Paris, TX 75460 Paris WWTP Permit Site Drawing	N	**Garver, LLC.** 3010 Gaylord Pkwy., Suite 190 Frisco, Texas 75034 (972) 377-7480	GARVER

Attachment F: Buffer Zone Map



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Paris

   Permit No. WQ00 0010479-002 EPA ID No. TX 0027910

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

   HWY 271 North Paris TX 75460.
   1.7 MILES NE FMR 1499 AND US HWY 271 SIX MILES NORTH OF THE CITY OF PARIS IN LAMAR COUNTY.

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

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

First and Last Name: Danny Rowell

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

Title: Interim Director of Utilities

Mailing Address: PO Box 9037

City, State, Zip Code: Paris, Texas, 75461

Phone No.: 903-784-2464 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: drowell@paristexas.gov

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

N/A

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

Effluent is discharged to Hick's Creek; thence to Pine Creek; thence to Red River Below Lake Texoma in Segment No. 0202 of the Red River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing disturbances, vegetation, and land use are those typically associated with operation and maintenance of a wastewater treatment plant.

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

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

N/A

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

N/A

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

PAT MAYSE LAKE EAST QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

City of Paris Wastewater Treatment Plant Boundary

Point of Discharge

City of Paris Applicant Property Boundary

1 mile downstream

1.00 mi

CAMP MAXEY

Powderly

Caviness

Reno

Givens

Lamar Lake

Hicks Cr

Crooked Cr

Pine Cr

Lake Crook

Little Pine Cr

Casey Cem

McEwin Cem

Restlawn Cem

CO RD 34710
CO RD 33800
CO RD 33810
CO RD 33715
CO RD 32500
CO RD 33920
CO RD 33840
CO RD 33850
CO RD 33620
CO RD 32505
CO RD 32200
CO RD 32230
CO RD 31100
CO RD 44060
CO RD 44050
CO RD 44100
CO RD 44410
CO RD 43200
CO RD 43270
CO RD 42200
CO RD 42400
CO RD 42000
CO RD 33970
CO RD 33775
CR 33980
CR 31700
CR 32900
CR 42200
CR 12400
MILITARY RD
GATE 2 RD
NAVAJO TRL
CAVINESS RD
CRIPPLE CREEK
DOE RUN
LARAMIE LAKE DR
FM 2648
FM 1499
FM 79
FM 195
PR 1095
BEAVER CREEK RD
TIMBER LAKE DR
RED OAK CIR
OAK HILL
STILLHOUSE RD
SUMMERHILL RD
ABBY LN
LAKESHORE DR
SMALLWOOD RD
STONE AVE
LEWIS LN
DESHONG DR
CLEMENT RD
ASPEN
OAK CREEK DR
SPR 139
W CENTER ST
E CENTER ST
N MAIN ST
19TH ST NW
10TH ST NE
36TH ST NE
NW LOOP 286
271
82
286
19
24

Produced by the United States Geological Survey

SCALE 1:24 000

ROAD CLASSIFICATION

PARIS QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 15S
10 000-foot ticks: Texas Coordinate System of 1983 (north central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN 2° 43' 48 MILS
GN 1° 25' 25 MILS

U.S. National Grid
100,000-m Square ID
TT
Grid Zone Designation
15S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1	2	3
4		5
6	7	8

1 Pat Mayse Lake West
2 Pat Mayse Lake East
3 Slate Shoals
4 Toco
5 Blossom
6 Roxton
7 Biardstown
8 Pattonville
ADJOINING QUADRANGLES

PARIS, TX
2016

MEMO

SUBMERSIBLE MIXER FOR SOUTH COOLING TANK

FEB 18 2005

(LEFT TO RIGHT)

MEMO

CARL PYE
JASON THOMS
SAM AUSMUS
(INSTALLING NEW CHAINGUARD)

FEB 18 2005

(LEFT TO RIGHT)

MEMO

CARL PYE
JOHNNY ELLIS
JASON THOMS
SAM AUSMUS

FEB 18 2005

MEMO

JODY ARNOLD
DOING
AN
INCREASE
OF
SOLIDS

MAR 1 7 2005

MEMO

RAW TWO
PREP FOR CHANGING
OUT BIOTOWER
EFFLUENT PUMP
ISOLATION VALVES
& CLEANING OUT
OF RAW TWO.

MAR 1 7 2005

MEMO

RAW TWO
BEFORE
CLEANED
OUT BY
A-1 SANITATION
+VS.

MAR 1 7 2005

ON BACKHOE - JASON THOMS

MEMO

(LEFT TO RIGHT)

CARL PYE
BILLY SHEPHERD
JOHNNY ELLIS
SAM AUSMUS
JACKIE MILLER
JODY ARNOLD

INSTALLING #1
PLUG VALVE FOR
EFFLUENT PUMP.

MAR 17 2005

(LEFT TO RIGHT)

MEMO

CARL PYE
BILLY SHEPHERD
SAM AUSMUS
JODY ARNOLD
JACKIE MILLER

MAR 17 2005

BACKHOE OPERATOR -
JASON THOMS

MEMO

(LEFT TO RIGHT)

BILLY SHEPHERD
JOHNNY ELLIS
CARL PYE

MAR 17 2005

MEMO 5-05

OLD TORN OUT.

MEMO 5-05

IN WITH THE NEW

(LEFT) TIM WELCH

(RIGHT) SEAN AUSMUS

MEMO AFTER 5-05

MEMO

ATAB R#2

NOV 3 0 2005

MEMO

R#2

NOV 3 0 2005

MEMO

R#2

NOV 3 0 2005

MEMO

LEFT TO RIGHT
BILLY SHEPHERD
JASON THOMAS
MAR 2 9 2006
LARRY ELLIS
CARL PYE

MEMO

JONNNY ELLIS
WASHING
WATP
MAR 2 9 2006

MEMO

APR 0 5 2006

MEMO

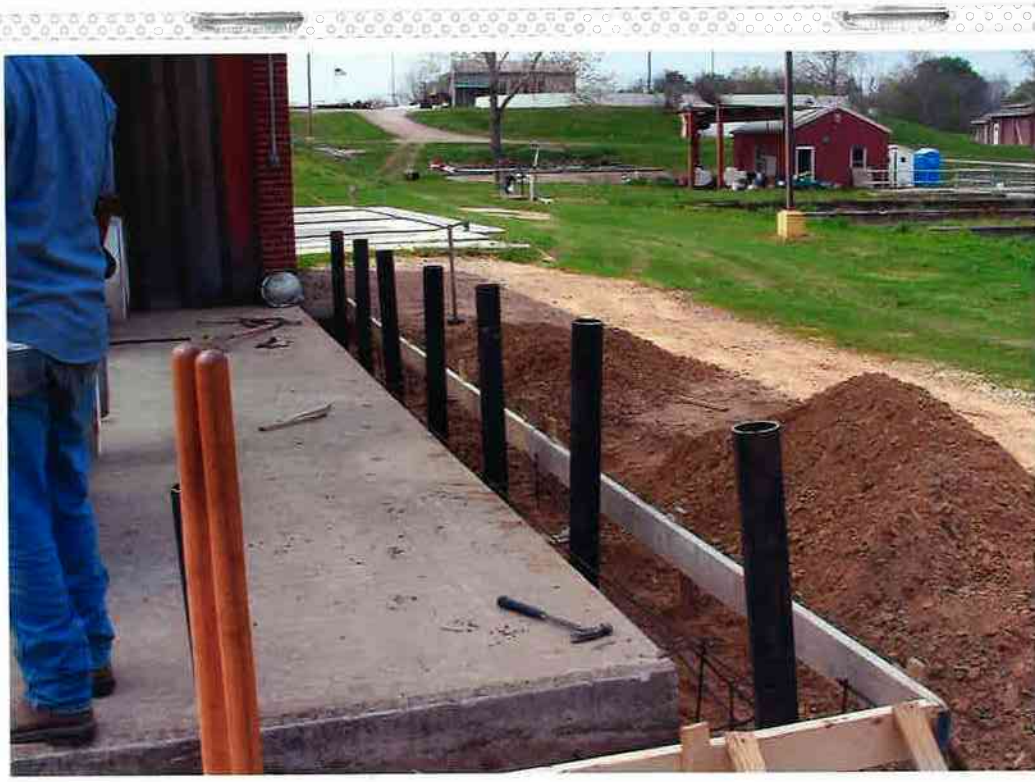
APR 0 5 2006

MEMO

APR 0 5 2006

MEMO

APR 0 5 2006



MEMO

JUN 3 0 2006

MEMO

JUN 3 0 2006

MEMO

JUN 3 0 2006

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): 7.25 MGD

2-Hr Peak Flow (MGD): 17.34 MGD

Estimated construction start date: Existing

Estimated waste disposal start date: Existing

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 7.25 MGD

2-Hr Peak Flow (MGD): 17.34 MGD

Estimated construction start date: Existing

Estimated waste disposal start date: Existing

D. Current Operating Phase

Provide the startup date of the facility: 1974; Solids improvements completed in 2019

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

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided**.

See Attachment E: Treatment Process Description

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)
Master Lift Station Pumps	3	Variable Speed Pump Design Capacity = 2,775 gpm at 90 hd-ft
Pista Grit Chamber	1	Model 12 Unit Peak Capacity = 12 MGD
Static Screens	6	Hycor Model HS 72 6ft x 0.060 inches Design Capacity per unit = 1.69 MGD
Biotower (Fixed Film Reactor)	1	Surface Area = 5,025 ft2 Volume = 74,867 ft3 Design Capacity = 12 MGD
Orbital Aeration Units	2	5 Channels with aeration discs Total Combined Volume = 502,512 ft3
Secondary Clarifiers	3	Diameter = 80 ft Side Water Depth = 10.83 ft (2 units); 13.5 ft (1 unit) Total Weir Perimeter = 249 ft
RAS Screw Pumps	2	Diameter = 42” Design Capacity = 3500 gpm
WAS/Scum Pumps	2	Flygt CP 3102 Submersible Non-Clog Design Capacity = 250 gpm at 40 ft
Heavy Sludge (Grit) Pumps	2	Flygt CP 3152 Submersible Non-Clog Design Capacity = 820 gpm at 55 ft

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Chlorination Chamber	3	73’ 6” L x 16’ W x 11’ D 2 Hr Peak Flow = 17.32 MGD
Rotary Drum Thickener	1	Roediger SDC180 Thickener 12’ L x 6’ 6” W x 6’ 4” D
ATAD Chambers	3	Krueger Three Reactor System Diameter = 21’ 7” Side Water Depth = 10.8 ft
Sludge Thickeners/ Holding Tanks	2	Diameter = 53 ft Side Water Depth = 9 ft
Rotary Fan Press	1	36-inch Single Channel 2.0 RFP 1 Fan (Expandable to 2) Design Capacity = 15 gpm; 225 dry solids lbs/hr
Sludge Drying Beds	2	Rectangular Basin Volume = 340,000 gallons
Progressive Cavity Spray Field Pumps	2	Flygt FP 3152 XP Submersible Non-Clog Design Capacity = 620 gpm at 47 ft

C. Process Flow Diagram

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

Attachment: See Attachment C: Process Flow Diagram

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

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

- Latitude: 33°45'34" N
- Longitude: 95°32'7" 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: See Attachment D: Site Drawing

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

City of Paris and City of Toco. City of Toco discharges to the collection system by contract to serve one liquor store and a small number of residential lots. Contract specifies only household, domestic wastewater may be discharged. There is an additional written agreement with the City of Toco that if any future operation subject to the City of Paris pretreatment program will be administered and enforced by City of Paris pretreatment personnel.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Wastewater Treatment Plant	City of Paris	**Publicly Owned**	25,000

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☒ Yes ☐ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☒ No

If yes, provide a brief description of the closure and the date of plan approval.

Approval of Proposed Closure Plan for City of Paris Master Lift Station TPDES Permit No. WQ0010479002 (CN600632269; RN101920767) was received on March 26, 2024. Approval for construction Paris Phase 1 WWTP Improvements TPDES Permit No. WQ0010479-002 WWRP Log No. 0422/027 CN 600632269, RN 101920727 was received on June 7, 2022. Approval for construction of Paris Phase 2 WWTP Improvements PDES Permit No. WQ0010479-002 WWRP Log No. 0422/027 CN 600632269, RN 101920727 was received on December 1, 2023.

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions 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: Last upgrade 12/31/1997

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☐ Yes ☒ 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.

Approval for construction Paris Phase 1 WWTP Improvements TPDES Permit No. WQ0010479-002 WWRP Log No. 0422/027 CN 600632269, RN 101920727 was received on June 7, 2022. This approval for construction included conditional approval of the buffer variance provided the measures cited by the engineer are effective in reducing the transmission of odors

Attachment F: Buffer Zone Map

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☒ Yes ☐ No

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

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.

No grit is accepted. Only limited amounts of grease trap wastes are accepted and only from local restaurants, nursing homes, and similar facilities. Acceptance of any grease is at the discretion of the of the wastewater superintendent. Grease trap waste is delivered at the head of the treatment plant and undergoes full treatment. Acceptance of grease is only as a service to local establishments within city jurisdiction to allow for proper disposal of such wastes.

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.

Click to enter text.

E. Stormwater management

1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☒ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☒ 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 S131 or TXRNE N/A

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

4. *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

5. *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.

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

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. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
N/A

G. Other 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.

N/A

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

2. ***Acceptance of septic waste***

Is the facility accepting or will it accept septic waste?

☒ Yes ☐ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☒ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 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.

Septage and portable toilet wastes are accepted at the head of the plant and undergo full treatment. Such wastes have been accepted for many years (over 30 years). BOD and TSS concentrations are higher than normal influent flow but the small amounts received have no detrimental effect on the treatment process since the waste is of a normal, domestic nature. Amount of waste per month is highly variable ranging from a few thousand gallons to possibly twenty thousand (20,000) gallons.

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

3. ***Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)***

Is 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. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater treatment facilities*** 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.

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	3.40	7.30	24	Comp	Aug. 2024
Total Suspended Solids, mg/l	10.42	23.60	24	Comp	Aug. 2024
Ammonia Nitrogen, mg/l	0.7192	2.80	24	Comp	Aug. 2024
Nitrate Nitrogen, mg/l	ND	ND	1	Grab	05/14/2024
Total Kjeldahl Nitrogen, mg/l	23.0	23.0	1	Grab	05/14/2024
Sulfate, mg/l	96.5	96.5	1	Grab	05/14/2024
Chloride, mg/l	37.7	37.7	1	Grab	05/14/2024
Total Phosphorus, mg/l					
pH, standard units	6.86	6.87	11	Grab	06/14/24
Dissolved Oxygen*, mg/l	5.9	8.7	11	Grab	06/14/24
Chlorine Residual, mg/l	N/A	N/A	31	Grab	Aug. 2024
E.coli (CFU/100ml) freshwater	10.63	211.00	15	Grab	Aug. 2024
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	393	393	1	Grab	05/14/2024
Electrical Conductivity, µmohs/cm, †	N/A				
Oil & Grease, mg/l	ND	ND	1	Grab	05/14/2024
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP 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					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Joshua Hart

Facility Operator's License Classification and Level: Class A

Facility Operator's License Number: WW0058726

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

- ☒ Design flow>= 1 MGD
- ☒ 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: TCEQ Class A Sludge Notification No. 720021 authorizes land application as part of marketing/distribution of Class A sludge. Landfill is the primary method of disposal; land application is secondary.

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	Off-site Third-Party Handler or Preparer	Not Applicable		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): TCEQ Class A Sludge Notification No. 720021 authorizes land application as part of marketing/distribution of Class A sludge. Landfill is the primary method of disposal; land application is secondary.

D. Disposal site

Disposal site name: Primary, Sanitation Solutions landfill

TCEQ permit or registration number: Landfill Permit No. 2358 (Sanitation Solutions)

County where disposal site is located: Lamar County, TX

E. Transportation method

Method of transportation (truck, train, pipe, other): Truck for landfill

Name of the hauler: Sanitation Solutions for landfill only

Hauler registration number: 23976

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☐ solid ☒

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☒ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☒ Yes	☐ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☒ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

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: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. 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.

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☒ Yes ☐ No

If yes, provide the TCEQ authorization number and description of the authorization:

TCEQ Class A Sludge Notification No. 720021 allows for marking/distribution of Class A sludge. This notification allows for land application as part of that distribution with annual reporting requirements to TCEQ for volume of sludge that is land applied between September 1st through August 31st each year. Currently, landfill is the primary method of disposal since there are no active landowners. Class A sludge will continue to be sent to the landfill unless the City of Paris notifies TCEQ about land application for a new landowner.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

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

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

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

CERTIFICATION:

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

Printed Name: Danny Rowell

Title: Interim Director of Utilities

Signature: _____

Date: 1-8-2025

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

Click to enter text.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. *Municipally incorporated areas*

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: Click to enter text.

2. *Utility CCN areas*

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☐ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click to enter text.

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD_5 from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Click to enter text.

Provide the source(s) used to determine 100-year frequency flood plain.

Click to enter text.

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

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

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: Click to enter text.

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: Click to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Click to enter text.

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

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: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

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: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

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

Click to enter text.

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.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

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: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

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 ☒

Date and time sample(s) collected: 5/23/23, 7/18/23, 10/24/23

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<10.0	<10.0	1	50
Aldrin	<0.050	<0.050	1	0.01
Aluminum	44.97	52.7	3	2.5
Anthracene	<2.50	<2.50	1	10
Antimony	<5.0	<5.0	3	5
Arsenic	1.863	2.81	3	0.5
Barium	19.8	24.9	1	3
Benzene	<5.0	<5.0	1	10
Benzidine	<10.0	<10.0	1	50
Benzo(a)anthracene	<2.50	<2.50	1	5
Benzo(a)pyrene	<2.50	<2.50	1	5
Bis(2-chloroethyl)ether	<2.50	<2.50	1	10
Bis(2-ethylhexyl)phthalate	<5.0	<5.0	1	10
Bromodichloromethane	7.77	7.77	1	10
Bromoform<	<10.0	<10.0	1	10
Cadmium	<1.0	<1.0	3	1
Carbon Tetrachloride	<2.0	<2.0	1	2
Carbaryl	<4.00	<4.00	1	5
Chlordane*	<5.0	<5.0	1	0.2
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	<5.0	<5.0	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	27.4	27.4	1	10
Chlorpyrifos	<0.0493	<0.0493	1	0.05
Chromium (Total)	<3.0	<3.0	3	3
Chromium (Tri) **(*1)**	<3.0	<3.0	1	N/A
Chromium (Hex)	<3.0	<3.0	1	3
Copper	2.63	2.76	3	2
Chrysene	<2.50	<2.50	1	5
p-Chloro-m-Cresol	<2.50	<2.50	1	10
4,6-Dinitro-o-Cresol	<5.0	<5.0	1	50
p-Cresol	<7.50	<7.50	1	10
Cyanide **(*2)**	<10.0	<10.0	3	10
4,4'- DDD	<0.050	<0.050	1	0.1
4,4'- DDE	<0.050	<0.050	1	0.1
4,4'- DDT	<0.050	<0.050	1	0.02
2,4-D	<0.490	<0.490	1	0.7
Demeton (O and S)	<0.0493	<0.0493	1	0.20
Diazinon	<0.0493	<0.0493	1	0.5/0.1
1,2-Dibromoethane	<2.0	<2.0	1	10
m-Dichlorobenzene	<2.50	<2.50	1	10
o-Dichlorobenzene	<2.50	<2.50	1	10
p-Dichlorobenzene	<2.50	<2.50	1	10
3,3'-Dichlorobenzidine	<5.0	<5.0	1	5
1,2-Dichloroethane	<5.0	<5.0	1	10
1,1-Dichloroethylene	<5.0	<5.0	1	10
Dichloromethane	<20.0	<20.0		20
1,2-Dichloropropane	<2.0	<2.0	1	10
1,3-Dichloropropene	<10.0	<10.0	1	10
Dicofol	<0.0493	<0.0493	1	1
Dieldrin	<0.050	<0.050	1	0.02
2,4-Dimethylphenol	<5.0	<5.0	1	10
Di-n-Butyl Phthalate	<2.50	<2.50	1	10
Diuron	<0.0800	<0.0800	1	0.09
Endosulfan I (alpha)	<0.050	<0.050	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.050	<0.050	1	0.02
Endosulfan Sulfate	<0.050	<0.050	1	0.1
Endrin	<0.050	<0.050	1	0.02
Ethylbenzene	<2.0	<2.0	1	10
Fluoride	<500	<500	1	500
Guthion	<0.0493	<0.0493	1	0.1
Heptachlor	<0.050	<0.050	1	0.01
Heptachlor Epoxide	<0.050	<0.050	1	0.01
Hexachlorobenzene	<0.050	<0.050	1	5
Hexachlorobutadiene	<2.50	<2.50	1	10
Hexachlorocyclohexane (alpha)	<0.050	<0.050	1	0.05
Hexachlorocyclohexane (beta)	<0.050	<0.050	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.050	<0.050	1	0.05
Hexachlorocyclopentadiene	<10.0	<10.0	1	10
Hexachloroethane	<20.0	<20.0	1	20
Hexachlorophene	<10.0	<10.0		10
Lead	<0.50	<0.50	3	0.5
Malathion	<0.0493	<0.0493	1	0.1
Mercury	0.000837	0.00116	3	0.005
Methoxychlor	<2.0	<2.0	1	2
Methyl Ethyl Ketone	<25	<25	1	50
Mirex	<0.00986	<0.00986	1	0.02
Nickel	7.863	9.52	3	2
Nitrate-Nitrogen	6510	6510		100
Nitrobenzene	<2.50	<2.50	1	10
N-Nitrosodiethylamine	<2.50	<2.50	1	20
N-Nitroso-di-n-Butylamine	<2.50	<2.50	1	20
Nonylphenol	8.60	18.2	3	333
Parathion (ethyl)	<0.0493	<0.0493	1	0.1
Pentachlorobenzene	<2.50	<2.50	1	20
Pentachlorophenol	<5.0	<5.0	1	5
Phenanthrene	<2.50	<2.50	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.50	<0.50	1	0.2
Pyridine	<2.50	<2.50	1	20
Selenium	<5.0	<5.0	3	5
Silver	<0.50	<0.50	3	0.5
1,2,4,5-Tetrachlorobenzene	<2.50	<2.50	1	20
1,1,2,2-Tetrachloroethane	<5.0	<5.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Thallium	<0.50	<0.50	3	0.5
Toluene	<5.0	<5.0	1	10
Toxaphene	<0.50	<0.50	1	0.3
2,4,5-TP (Silvex)	<0.294	<0.294	1	0.3
Tributyltin (see instructions for explanation)	0.0312	0.0312	1	0.01
1,1,1-Trichloroethane	<5.0	<5.0	1	10
1,1,2-Trichloroethane	<5.0	<5.0	1	10
Trichloroethylene	<5.0	<5.0	1	10
2,4,5-Trichlorophenol	<2.50	<2.50	1	50
TTHM (Total Trihalomethanes)	36.8	36.8	1	10
Vinyl Chloride	<5.0	<5.0	1	10
Zinc	19.53	28.9	3	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: **5/23/23, 7/18/23, 10/24/23**

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	<5.0	<5.0	3	5
Arsenic	1.863	2.81	3	0.5
Beryllium	<0.50	<0.50	3	0.5
Cadmium	<1.0	<1.0	3	1
Chromium (Total)	<3.0	<3.0	3	3
Chromium (Hex)	<3.0	<3.0	1	3
Chromium (Tri) **(*1)**	<3.0	<3.0	1	N/A
Copper	2.63	2.76	3	2
Lead	<0.50	<0.50	3	0.5
Mercury	0.000837	0.00116	3	0.005
Nickel	7.863	9.52	3	2
Selenium	<5.0	<5.0	3	5
Silver	<0.50	<0.50	3	0.5
Thallium	<0.50	<0.50	3	0.5
Zinc	19.53	28.9	3	5
Cyanide **(*2)**	<10.0	<10.0	3	10
Phenols, Total	<10.0	<10.0	3	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	<10.0	<10.0	1	50
Acrylonitrile	<10.0	<10.0	1	50
Benzene	<5.0	<5.0	1	10
Bromoform	<10.0	<10.0	1	10
Carbon Tetrachloride	<2.0	<2.0	1	2
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	<5.0	<5.0	1	10
Chloroethane	<5.0	<5.0	1	50
2-Chloroethylvinyl Ether	<10.0	<10.0	1	10
Chloroform	27.4	27.4	1	10
Dichlorobromomethane [Bromodichloromethane]	7.77	7.77	1	10
1,1-Dichloroethane	<5.0	<5.0	1	10
1,2-Dichloroethane	<5.0	<5.0	1	10
1,1-Dichloroethylene	<5.0	<5.0	1	10
1,2-Dichloropropane	<2.0	<2.0	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10.0	<10.0	1	10
1,2-Trans-Dichloroethylene	<10.0	<10.0	1	10
Ethylbenzene	<2.0	<2.0	1	10
Methyl Bromide	<5.0	<5.0	1	50
Methyl Chloride	<5.0	<5.0	1	50
Methylene Chloride	<20.0	<20.0	1	20
1,1,2,2-Tetrachloroethane	<5.0	<5.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Toluene	<5.0	<5.0	1	10
1,1,1-Trichloroethane	<5.0	<5.0	1	10
1,1,2-Trichloroethane	<5.0	<5.0	1	10
Trichloroethylene	<5.0	<5.0	1	10
Vinyl Chloride	<5.0	<5.0	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<2.50	<2.50	1	10
2,4-Dichlorophenol	<2.50	<2.50	1	10
2,4-Dimethylphenol	<5.0	<5.0	1	10
4,6-Dinitro-o-Cresol	<5.0	<5.0	1	50
2,4-Dinitrophenol	<5.0	<5.0	1	50
2-Nitrophenol	<2.50	<2.50	1	20
4-Nitrophenol	<5.0	<5.0	1	50
P-Chloro-m-Cresol	<2.50	<2.50	1	10
Pentalchlorophenol	<5.0	<5.0	1	5
Phenol	<10.0	<10.0	3	10
2,4,6-Trichlorophenol	<2.50	<2.50	1	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	<2.50	<2.50	1	10
Acenaphthylene	<2.50	<2.50	1	10
Anthracene	<2.50	<2.50	1	10
Benzidine	<10.0	<10.0	1	50
Benzo(a)Anthracene	<2.50	<2.50	1	5
Benzo(a)Pyrene	<2.50	<2.50	1	5
3,4-Benzofluoranthene	<2.50	<2.50	1	10
Benzo(ghi)Perylene	<2.50	<2.50	1	20
Benzo(k)Fluoranthene	<2.50	<2.50	1	5
Bis(2-Chloroethoxy)Methane	<2.50	<2.50	1	10
Bis(2-Chloroethyl)Ether	<2.50	<2.50	1	10
Bis(2-Chloroisopropyl)Ether	<2.50	<2.50	1	10
Bis(2-Ethylhexyl)Phthalate	<5.0	<5.0	1	10
4-Bromophenyl Phenyl Ether	<2.50	<2.50	1	10
Butyl benzyl Phthalate	<2.50	<2.50	1	10
2-Chloronaphthalene	<2.50	<2.50	1	10
4-Chlorophenyl phenyl ether	<2.50	<2.50	1	10
Chrysene	<2.50	<2.50	1	5
Dibenzo(a,h)Anthracene	<2.50	<2.50	1	5
1,2-(o)Dichlorobenzene	<2.50	<2.50	1	10
1,3-(m)Dichlorobenzene	<2.50	<2.50	1	10
1,4-(p)Dichlorobenzene	<2.50	<2.50	1	10
3,3-Dichlorobenzidine	<5.0	<5.0	1	5
Diethyl Phthalate	<2.50	<2.50	1	10
Dimethyl Phthalate	<2.50	<2.50	1	10
Di-n-Butyl Phthalate	<2.50	<2.50	1	10
2,4-Dinitrotoluene	<5.0	<5.0	1	10
2,6-Dinitrotoluene	<5.0	<5.0	1	10
Di-n-Octyl Phthalate	<2.50	<2.50	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<2.50	<2.50	1	20
Fluoranthene	<2.50	<2.50	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<500	<500	1	10
Hexachlorobenzene	<0.050	<0.050	1	5
Hexachlorobutadiene	<2.50	<2.50	1	10
Hexachlorocyclo-pentadiene	<10.0	<10.0	1	10
Hexachloroethane	<20.0	<20.0	1	20
Indeno(1,2,3-cd)pyrene	<2.50	<2.50	1	5
Isophorone	<2.50	<2.50	1	10
Naphthalene	<2.50	<2.50	1	10
Nitrobenzene	<2.50	<2.50	1	10
N-Nitrosodimethylamine	<2.50	<2.50	1	50
N-Nitrosodi-n-Propylamine	<2.50	<2.50	1	20
N-Nitrosodiphenylamine	<2.50	<2.50	1	20
Phenanthrene	<2.50	<2.50	1	10
Pyrene	<2.50	<2.50	1	10
1,2,4-Trichlorobenzene	<2.50	<2.50	1	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	<0.050	<0.050	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.050	<0.050	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.050	<0.050	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.050	<0.050	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.050	<0.050	1	0.05
Chlordane	<5.0	<5.0	1	0.2
4,4-DDT	<0.050	<0.050	1	0.02
4,4-DDE	<0.050	<0.050	1	0.1
4,4,-DDD	<0.050	<0.050	1	0.1
Dieldrin	<0.050	<0.050	1	0.02
Endosulfan I (alpha)	<0.050	<0.050	1	0.01
Endosulfan II (beta)	<0.050	<0.050	1	0.02
Endosulfan Sulfate	<0.050	<0.050	1	0.1
Endrin	<0.050	<0.050	1	0.02
Endrin Aldehyde	<0.050	<0.050	1	0.1
Heptachlor	<0.050	<0.050	1	0.01
Heptachlor Epoxide	<0.050	<0.050	1	0.01
PCB-1242	<0.50	<0.50	1	0.2
PCB-1254	<0.50	<0.50	1	0.2
PCB-1221	<0.50	<0.50	1	0.2
PCB-1232	<0.50	<0.50	1	0.2
PCB-1248	<0.50	<0.50	1	0.2
PCB-1260	<0.50	<0.50	1	0.2
PCB-1016	<0.50	<0.50	1	0.2
Toxaphene	<0.50	<0.50	1	0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☒ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

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: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

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

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: 12

48-hour Acute: 8

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☒ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

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
01/17/2023	Chronic – Ceriodephnia dubia	87%	87%
01/17/2023	Chronic – Pimephales promelas	87%	87%
01/17/2023	Acute – Daphnia pulex	100%	100%
01/17/2023	Acute – Pimephales promelas	100%	100%
05/16/2023	Chronic – Ceriodephnia dubia	87%	87%
05/16/2023	Chronic – Pimephales promelas	87%	87%
07/18/2023	Acute – Daphnia pulex	100%	100%
07/18/2023	Acute – Pimephales promelas	100%	100%
07/18/2023	Chronic – Ceriodephnia dubia	87%	87%
07/18/2023	Chronic – Pimephales promelas	87%	87%
10/24/2023	Chronic – Ceriodephnia dubia	87%	87%
10/24/2023	Chronic – Pimephales promelas	87%	87%
01/09/2024	Acute – Daphnia pulex	100%	100%
01/09/2024	Acute – Pimephales promelas	100%	100%
01/09/2024	Chronic – Ceriodephnia dubia	87%	87%
01/09/2024	Chronic – Pimephales promelas	87%	87%
05/14/2024	Chronic – Ceriodephnia dubia	87%	87%
05/14/2024	Chronic – Pimephales promelas	87%	87%
05/17/2024	Acute – Daphnia pulex	58.4%	58.4%
08/30/2024	Acute – Pimephales promelas	53.4%	53.4%

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: 0

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: 3

Average Daily Flows, in MGD: 0.093192

Other IUs:

Number of IUs: 5

Average Daily Flows, in MGD: 0.010642

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)?

☐ Yes ☒ No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☒ Yes ☐ No

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

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

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

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

☐ Yes ☒ No

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

N/A

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 3.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A	N/A	N/A	N/A	N/A

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

N/A

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

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. 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).

Click to enter text.

C. Product and service information

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

Click to enter text.

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.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ 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: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

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: **Renewal of Existing Facility. See Attachments C, E, G**

B. Is the facility located or proposed to be located above the 100-year frequency flood plain? Yes ☒ No ☐

If No, provide a separate site map indicating the location of the sludge units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

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 Number	Annual Quantity
City of Paris Wastewater Treatment Plant	TPDES Permit No. WQ0010479-002 Class A Sludge Notification No. 720021	250 Dry Tons (501,000 dry lbs)

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.

- ☐ Food crop harvesting restrictions
- ☐ 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**

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.
** The following protective measures are required prior to initial sludge/septage application:

- 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.

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☐ Technical Report 2.0, Sewage Sludge Composting

☒ Technical Report 3.0, Marketing and Distribution

☐ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0010479-002

Applicant: City of Paris

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: Robert Vine

Title: Interim City Manager

Signature (use blue ink): _____ Date: 01 08 2025

SUBSCRIBED AND SWORN to before me by the said Robert Vine on this 8th day of January, 20 25

My commission expires on the 19th day of August, 20 2028

Becky D. Weems

(Seal) Notary Public

BECKY D WEEMS
Notary Public
STATE OF TEXAS
ID# 586218-6
My Comm. Exp. Aug. 19, 2028

Lamar

County, Texas

LANDOWNER SIGNATURE PAGE

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

Permit Number: Click here to enter text

Applicant: Click here to enter text

I certify, as the owner of the land described in this permit application, that I have all rights and covenants to authorize the applicant to use this site for the land application of _____ (*identify the type(s) of sludge*). I understand that 30 TAC Chapter 312 requires me to make a reasonable effort to see that the applicant complies with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the TCEQ. I also 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 that there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of the permit.

Signatory Name: Click here to enter text

Title: Click here to enter text

Signature (use blue ink): _____Date: _____

SUBSCRIBED AND SWORN to before me by the said _____on

this_____day of_____, 20_____

My commission expires on the_____day of_____, 20_____

_____

(Seal) Notary Public

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 2.0

SEWAGE SLUDGE COMPOSTING

SECTION 1. RENEWAL OF EXISTING AUTHORIZATION

Provide the following information if you are requesting continued authorization to compost sewage sludge. Complete this section only if composting is currently authorized in the existing permit.

Date operation commenced: Click here to enter text.

Location of operation: Click here to enter text.

Type of bulking agent: Click here to enter text.

Approximate amount of sludge composted: Click here to enter text.

Provide a brief discussion of the composting process and any significant changes since the permit was last issued.

Click here to enter text.

SECTION 2. NEW AUTHORIZATION TO COMPOST SEWAGE SLUDGE

A. Submit an ORIGINAL General Highway (County) Map. See instructions for information that must be displayed on the map.

Attachment Number: Click here to enter text.

B. Has sewage sludge/septage previously been composted at this facility?

Yes ☐ No ☐

If Yes, provide a use history of the composting operations.

Click here to enter text

C. Provide a detailed description of the composting operation. The description must include the following information:

- Amount of sludge originating off-site to be composted;
- Total amount of sludge to be composted and total amount of feedstocks;
- Fecal coliform or Salmonella bacteria analysis (in MPN or CFU);
- Type, origin, and amount of bulking material to be used;
- Set back distances from facility boundaries for receiving, processing, or storing feedstocks or final product;
- Plan view of site;
- Type of composting proposed;
- Construction, maintenance, and operation to manage run-on and run-off during a 25-year, 24-hour rainfall event, including all calculations and sources used;
- Leachate collection system and leachate processing and disposal method;
- Construction, maintenance, and operations for groundwater protection;
- Design plan to line all surfaces used for delivery, mixing, composting, curing, screening, and storage to control seepage; and
- Design to minimize windblown material, odor, and vector control.

Attachment Number: Click here to enter text

D. Does the end product meet the requirements in 30 TAC 332.72(d)(2)(A)-(D)?

Yes ☐ No ☐

E. Submit a site operating plan which provides guidance from the design engineer to site management and operating personnel in sufficient detail to enable them to conduct day to day operations in a manner consistent with the engineer's design. The plan must include the following information:

- Process description (feedstock identification, tipping process, process, post-processing, product distribution, process diagram);
- Minimum number of personnel and their functions provided by the site operator;
- Minimum equipment;
- Security, site access control, traffic control, and safety;
- Control of the delivery material in designated areas;
- Screening for unprocessable, prohibited, and unauthorized material;
- Fire prevention and suppression plan;
- Control of windblown material;

- Equipment failures;
- Anticipated final grade of materials; and
- Description of handling and/or disposal of materials that doesn't meet 30 TAC Chapter 312.

Attachment Number: Click here to enter text

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: **Renewal of Existing Facility. See Attachments C, E, G**

B. Is the facility located or proposed to be located above the 100-year frequency flood plain? Yes ☒ No ☐

If No, provide a separate site map indicating the location of the sludge units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

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 Number	Annual Quantity
City of Paris Wastewater Treatment Plant	TPDES Permit No. WQ0010479-002 Class A Sludge Notification No. 720021	250 Dry Tons (501,000 dry lbs)

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.

- ☐ Food crop harvesting restrictions
- ☐ 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**

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.
** The following protective measures are required prior to initial sludge/septage application:

- 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.

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☐ Technical Report 2.0, Sewage Sludge Composting

☒ Technical Report 3.0, Marketing and Distribution

☐ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0010479-002

Applicant: City of Paris

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: Robert Vine

Title: Interim City Manager

Signature (use blue ink): _____ Date: 01 08 2025

SUBSCRIBED AND SWORN to before me by the said Robert Vine on this 8th day of January, 20 25

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BECKY D WEEMS
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STATE OF TEXAS
ID# 586218-6
My Comm. Exp. Aug. 19, 2028

Lamar

County, Texas

LANDOWNER SIGNATURE PAGE

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

Permit Number: Click here to enter text

Applicant: Click here to enter text

I certify, as the owner of the land described in this permit application, that I have all rights and covenants to authorize the applicant to use this site for the land application of _____ (*identify the type(s) of sludge*). I understand that 30 TAC Chapter 312 requires me to make a reasonable effort to see that the applicant complies with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the TCEQ. I also 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 that there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of the permit.

Signatory Name: Click here to enter text

Title: Click here to enter text

Signature (use blue ink): _____Date: _____

SUBSCRIBED AND SWORN to before me by the said _____on

this_____day of_____, 20_____

My commission expires on the_____day of_____, 20_____

_____

(Seal) Notary Public

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 3.0

SEWAGE SLUDGE MARKETING AND DISTRIBUTION

A. What is the TCEQ Permit number for the Wastewater Treatment Plant that is generating the Class A or Class AB sewage sludge? WQ0010479-002, Class A Sludge Notification No. 72002

B. What is the name and location of the distribution storage center? N/A

C. Provide a description of the marketing and distribution plan.

Currently, the Class A sludge is sent to a landfill for disposal since there are no active landowners receiving sludge for land application. Class A sludge will continue to be sent to the landfill unless the City notifies TCEQ about land application for a new landowner.

The plan for Class A sludge produced by Autothermal Thermophylic Aerobic Digestion (ATAD) sludge reactors for marketing and/or distribution of bulk sludge for land application. The TCEQ is notified of all interested parties wishing to have Class A sludge applied to their property. The information furnished includes name of individual(s), address, phone number, county, and number of acres. Quarterly sludge testing ensures all pathogen reduction, vector attraction, and metals concentration limits meet the requirements of Class A sludge for distribution.

D. Provide the following information for all entities receiving sludge directly from the permittee. If more than 2, submit an attachment which includes the follow information.

1. Contact Name: None

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

2. Contact Name: Click here to enter text.

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

E. Provide a copy of the label or information sheet that is provided to each entity receiving the sewage sludge.

Attachment Number: Click here to enter text.

F. Indicate by a checkmark that the sewage sludge meets the following:

☒ Metal concentrations in 30 TAC §312.43(b)(3)

☒ Vector attraction reduction requirements

☒ Class A, Class AB or Class B pathogen requirements

G. Indicate the type of recordkeeping: Computer database and hard copies of all laboratory results.

PLEASE NOTE: If Class AB sewage sludge, attach a topographic map that shows the required buffer zones stated in 30 TAC §312.44.

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: Click here to enter text.

B. Indicate by checkmarks if the disposal unit contains any of the following:

☐ Overlaps a designated 100-year frequency floodplain

☐ Soils with flooding classification

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ Overlaps an unstable area

☐ None of these

If the sludge disposal unit contains any of the above features, provide a detailed description of the type and size of protective measures.

Click here to enter text.

SECTION 2. DISPOSAL INFORMATION

A. What is the volume and frequency of sludge disposal? Click here to enter text.

B. What is the total dry tons placed on the disposal unit per 365-day period? Click here to enter text.

C. What is the total dry tons placed on the disposal unit over the life of the unit? Click here to enter text.

D. Attach a current TCLP test result from each sludge source.
Attachment Number: Click here to enter text.

SECTION 3. FACILITY INFORMATION

A. Does the disposal unit have a liner with a maximum hydraulic conductivity of $1X10^{-7}$ cm/sec? Yes ☐ No ☐

If yes, describe the liner.

Click here to enter text.

B. 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.

Click here to enter text.

C. 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 ☐

If you answered No to C., what is the actual distance to the nearest property boundary in meters? Click here to enter text.

Click here to enter text.

Yes ☐ No ☐

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

off of the disposal unit during a 25-year, 24-hour rainfall event?

Yes ☐ No ☐

E. If sludge dewatering is used, describe the method of sludge dewatering and the average percent solids disposed of in the disposal unit.

Click here to enter text

F. Are crops grown or animals allowed to graze at the disposal site?

Yes ☐ No ☐

If yes, provide a detailed description of management practices that protect human health from accumulation of metals in the sewage sludge.

Click here to enter text

SECTION 4. SITE DEVELOPMENT PLAN

A. Provide a detailed description of the methods used to deposit sludge in the disposal unit.

Click here to enter text

B. 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.

SECTION 5. GROUNDWATER MONITORING

A. Is groundwater monitoring currently conducted at this disposal unit, or is groundwater monitoring data otherwise available?
Yes ☐ No ☐
If yes, attach a copy of available groundwater monitoring data.
Attachment Number: Click here to enter text

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: Click here to enter text

C. Provide a certification from a qualified groundwater scientist that the aquifer below the disposal unit will not be contaminated.
Attachment Number: Click here to enter text

D. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater.
Attachment Number: Click here to enter text

Appendix A
Pollutant Concentrations in Sewage Sludge

Complete this table **for each source** of sludge.

Facility Name: City of Paris Wastewater Treatment Plant
TCEQ Authorization Number: TPDES Permit No. WQ0010479-002; Class A Sludge Notification No. 720021

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)	75	<21.6	10/24/2023	21.6	Grab
Cadmium (Cd)	85	<10.8	10/24/2023	10.8	Grab
Chromium (Cr)	3000	153.24	10/24/2023	21.6	Grab
Copper (Cu)	4300	173.97	10/24/2023	32.5	Grab
Lead (Pb)	840	51.50	10/24/2023	21.6	Grab
Mercury (Hg)	57	<0.15	10/24/2023	0.15	Grab
Molybdenum (Mo)	75	<108	10/24/2023	108	Grab
Nickel (Ni)	420	302.0	10/24/2023	21.6	Grab
Selenium (Se)	100	<21.6	10/24/2023	21.6	Grab
Zinc (Zn)	7500	410.98	10/24/2023	216	Grab
PCB (ppm)	50.0 ppm	<0.873	10/24/2023	0.873	Grab
Fecal Coliform (MPN)	N/A			42.2	Grab

Appendix B
PATHOGEN REDUCTION REQUIREMENTS

For each source, select the pathogen reduction alternative that will be used prior to land application of sewage sludge. Requirements for each alternative can be found in 30 TAC §312.82.

TCEQ Permit Number	Pathogen Reduction Alternative Used	Fecal Coliform Geometric Mean (cfu/gram total solids)*	Fecal Test Date*	Is PSRP Certification Attached?** (Yes/No/NA)
Example WQ11280-001	Option 1: Density of Fecal Coliform	300,000 cfu/g	12/2/98	NA
WQ0010479-002	Class A: Thermally treated	N/A	N/A	N/A
WQ0010479-002	Class A: PFRP	N/A	N/A	N/A
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			

*Applicable to Option 1 only.
**Applicable to Option 2a – f.

If Other or PFRP Equivalent is selected as the Alternative Used, please explain: Click here to enter text.

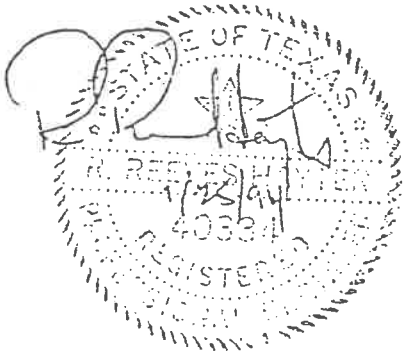
Appendix C
VECTOR ATTRACTION REDUCTION REQUIREMENTS

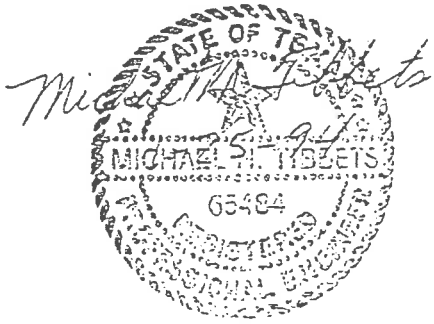
For each source, provide the vector attraction reduction option that will be used prior to or after land application of sewage sludge/septage. Requirements for each alternative can be found in 30 TAC §312.83.

TCEQ Permit Number	Vector Attraction Reduction Alternative Used*	Monitoring Criteria and results needed for alternative
Example WQ11280-001	Option 10: Incorporate within 6 hrs	Visual inspection of area after tilling
Example WQ13450-003	Option 4: SOUR <=1.5 mg 02/hr/g total solids at 20C (<2% solids)	Aerobically digested, 2.0% solids, SOUR=1.3 mg/g
WQ0010479-002	Option 4: SOUR <=1.5 mg 02/hr/g total solids at 20C (<2% solids)	Aerobically digested, 2.0% solids, SOUR=1.3 mg/g
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	

*Options 1-8 are sludge treatment alternatives. Options 9-10 are onsite alternatives. Option 12 is for domestic septage only.

DESIGN MEMORANDUM
WASTEWATER TREATMENT PLANT IMPROVEMENTS
CITY OF PARIS
LAMAR COUNTY, TEXAS
FEBRUARY, 1994





Prepared By:

HAYTER ENGINEERING, INC.

HAYTER
ENGINEERING, INC

CONSULTANTS PLANNERS ENGINEERS

4445 S.E. LOOP 286
PARIS, TEXAS 75460
(214) 785-0303

Wastewater Treatment Plant Improvements

Table of Contents

I. Problem Statement

A. Regulatory Constraints

The situations addressed by this report are based on a need to comply with newly-enacted regulatory constraints. These new regulations are: (1) the new EPA sludge regulations, subchapter 0 of Chapter I of title 40 of the Code of Federal Regulations part 503; and (2) the most recently updated TNRCC discharge permit no. 10479-02.

The new EPA regulations, more commonly known as the "503 sludge regulations", and the corresponding section 312 TNRCC regulations, deal with the disposal of domestic wastewater sludge. Generally speaking, these regulations tighten the control that the sludge generator must maintain over the disposal of the sludge. New parameters have been imposed which require additional testing, as well as in-depth investigations into the acceptability of existing disposal methods.

The new discharge permit has limits of "10/15/2/6", which means that the maximum BOD_5 that may be discharged is 10 mg/l, maximum TSS is 15, maximum ammonia nitrogen is 2, and the minimum dissolved oxygen content is 6 mg/l. The previous permit allowed 20 mg/l of BOD_5 and TSS each, which is considerably higher than that which is allowed under the new permit. No constraints at all were listed for ammonia nitrogen or dissolved oxygen under the previous permit.

B. Required Facility Improvements

The increased BOD_5 and TSS removal requirement, will place extra demands on the clarification capabilities of the treatment plant.

Decreasing the allowable TSS discharge by 25% (from 20 mg/l down to 15) will require additional clarification. Reducing the allowable BOD_5 discharge by 50% (from 20 mg/l down to 10) will be accomplished through the increased solids (and their

associated BOD_5) removal in the clarifiers. The maximum allowable ammonia discharge is not expected to require plant modifications. Ammonia concentrations have been consistently below the maximum limit and therefore no plant modifications are recommended to address this item (See Table I).

The new requirement for at least 6 mg/l of dissolved oxygen (DO) will require post-aeration as described in Section V.

Grit and screenings will continue to be disposed of at a Type I landfill. This will require that they be dried to a consistency which will meet the paint filter test.

The upgrading of aeration disks (replacing old style disks with a new more efficient design), new flow measurement, new chlorine disinfection, and new dechlorination in recent construction projects (1991-1992) have brought these items into compliance with existing regulations, and they are therefore not addressed in this report.

II. New Clarifier

A. Existing Clarifiers

The existing plant contains two clarifiers which were built in 1972. Each is circular, 80 feet in diameter, with a side water depth of 10.83 feet. The bottom slopes toward the center at 1:12. Each clarifier has a surface area of 5027 square feet, with a volume of 54,442 cubic feet. The peripheral weir has a length of 249 feet. Each clarifier is equipped with a partial bridge, stilling well, scum collector, and sludge rake. The clarifier equipment was provided by Envirex Inc.

B. Current Capacity

The Texas Natural Resources Conservation Commission (TNRCC) has established minimum standards for the design and operation of the various components of wastewater treatment facilities.

CITY OF PARIS
DESIGN MEMORANDUM
TABLE I
Wastewater Treatment Plant
NH_3 Summary

JULY, 1989

DAY/DATE	R-1	R-2	FINAL
Sat. 1	N/A	N/A	N/A
Sun. 2	13.80	16.70	1.210
Mon. 3	7.97	8.73	.120
Tue. 4	12.10	10.50	.042
Wed. 5	16.80	13.90	.038
Thu. 6	15.40	12.90	.037
Fri. 7	16	16.10	.035
Sat. 8	N/A	N/A	N/A
Sun. 9	13.40	N/A	.067
Mon. 10	13.40	13.50	.077
Tue. 11	13.20	11.20	.085
Wed. 12	13.60	12.80	.051
Thu. 13	12.30	17	.036
Fri. 14	INV	INV	INV
Sat. 15	N/A	N/A	N/A
Sun. 16	5.03	5.22	.397
Mon. 17	5.39	5.03	.428
Tue. 18	8.11	7.04	.135
Wed. 19	4.38	6.44	.713
Thu. 20	32.80	3.21	.077
Fri. 21	5.85	4.23	.045
Sat. 22	N/A	N/A	N/A
Sun. 23	9.51	7.94	.059
Mon. 24	9.45	6.63	.050
Tue. 25	8.39	6.20	.100
Wed. 26	11	6.55	.072
Thu. 27	7.76	6.33	.026
Fri. 28	11.20	10.50	.045
Sat. 29	N/A	N/A	N/A
Sun. 30	13.80	12	.034
Mon. 31	16.10	15.80	.074
Total Sum	296.74	236.45	4.05
# of Samples	25	24	25
Daily Avg.	11.87	9.85	.16

FEBRUARY, 1989

DAY-DATE	R-1	R-2	FINAL
Wed. 1	12.50	8.84	.045
Thu. 2	N/A	N/A	.152
Fri. 3	N/A	Freezing	Snow
Sat. 4	N/A	N/A	N/A
Sun. 5	12.20	12	1.800
Mon. 6	N/A	N/A	N/A
Tue. 7	N/A	N/A	2.100
Wed. 8	N/A	N/A	.297
Thu. 9	N/A	N/A	.324
Fri. 10	N/A	N/A	.113
Sat. 11	N/A	N/A	N/A
Sun. 12	15.60	13.50	.137
Mon. 13	10.50	9.20	.272
Tue. 14	12.40	N/A	.041
Wed. 15	3.95	2.30	.072
Thu. 16	3.76	4.14	1
Fri. 17	8.99	12.60	.071
Sat. 18	N/A	N/A	N/A
Sun. 19	4.83	4.22	.209
Mon. 20	4.48	3.76	.576
Tue. 21	4.86	3.48	.424
Wed. 22	8.12	6.07	1.400
Thu. 23	9.42	7.02	N/A
Fri. 24	15.60	8.39	1.650
Sat. 25	N/A	N/A	N/A
Sun. 26	10.70	N/A	3.720
Mon. 27	11.20	9.33	3.790
Tue. 28	9.53	9.16	4.120
	158.64	114.01	22.31
	17	15	21
	9.33	7.60	1.06

These various "Design Criteria" are applicable to the clarifiers as follows:

1. Vertical flow velocity through the inlet stilling well should not exceed 0.15 feet per second. The existing clarifiers are equipped with 11 foot diameter stilling wells, which are sized such that this requirement will not be a limiting factor.

2. A scum baffle is to be provided, and means for scum removal. Each of the existing clarifiers is equipped with a mechanical scum arm and a partial scum beach.

3. Sludge lines must be 8 inch minimum diameter. The lines in these clarifiers are 18 inch diameter.

4. Solids loading to the clarifier shall not exceed 50 pounds per square foot of surface area. These clarifiers are sized such that this loading rate will not be a limiting factor.

5. Minimum side water depth for a clarifier of this diameter is to be 10 feet. The depth of these clarifiers is 10.83 feet, which exceeds the minimum requirement.

The two criteria which most severely restrict the capacity of the clarifiers are the weir loading rate, and the surface overflow rate. The weir loading rate is recommended to be in the range of 20,000 to 30,000 gallons per day per foot, per TNRCC requirements. In circular clarifiers with perimeter weirs, such as exist at the Paris plant, density currents can develop due to the differences in density between the contents of the tank and the incoming mixed liquor. The density current will flow outward from the center of the tank at the stilling well, along the bottom of the tank until an obstruction, such as the outer wall, is encountered. It then turns and follows the outer wall upward, which in the case of a peripheral weir, will cause the flow to impinge on the weir.

Problems of this nature have been noted at the Paris plant. We recommend that the weir loading rate be limited to 20,000 gallons per day per foot, to minimize this problem. Literature indicates that this alone will not totally solve the problem. Sludge blanket depth plays an important role, and should be kept as close to one foot as possible - assuming this does not adversely affect other operations - to minimize density currents. If this is not feasible, sloping "Stamford" baffles (to be discussed later) may need to be added within the clarifiers. On a weir loading basis the clarifiers are limited to a 10 MGD peak capacity at present (combined total, not per each). Clarifier surface overflow rate must also be considered. In the single stage nitrification, for enhanced solids removal (10/15), the allowable surface overflow rate should not exceed 600 gallons per day per square foot average flow, or 1200 gallons per day per square foot peak flow. These criteria limit the Paris clarifiers to 6 MGD average flow total through both clarifiers, (not through each) and a two hour peak flow of 12 MGD.

However, the "Design Criteria" contain an additional requirement for detention time which is more restrictive than the surface overflow rate. The detention time will be required to be a minimum of 1.5 hours at peak flow in the conventional activated sludge mode, and 3.0 hours at average flow. The detention time is based on the "effective" volume of the tank, which is the total volume less the area occupied by the sludge blanket. At Paris the sludge blanket is about 2 feet deep at the sidewall, and 4.5 feet deep at the center due to the cone bottom. Thus, deducting for the sludge blanket, detention time would limit the capacity of these clarifiers to 5.3 MGD average daily flow (total through both, not through each) and 10.6 MGD 2 hour peak.

C. Required Capacity Upgrade

Since the existing total rating of 5.3 MGD for the 2 existing clarifiers is less than the 7.25 MGD present limit, clarifier

upgrading is required. Addition of a third clarifier, of equal size, will increase the total clarifier rating to 7.98 MGD ADF, and 15.93 2-hour peak flow, at the lower 10/15 mg/l BOD_5 and TSS limits. Addition of Stamford baffles in all 3 clarifiers would assist in breaking up the density currents present at higher sludge blanket levels.

Presently the required detention time is the limiting factor when rating the treatment capacity of the two existing clarifiers. As previously mentioned, addition of a third clarifier of equal size would increase the total clarification capacity to 7.98 MGD ADF.

However, if the new clarifier was built with deeper walls (on the order of 2 or more feet deeper) then the detention time would no longer be the limiting factor. The rating for a deeper clarifier would then be controlled by surface area criteria, which would be 3.0 MGD (refer to Part B of this section). This extra depth will also improve the settling characteristics of the clarifier, and it is recommended.

Therefore, with the two existing clarifiers rated at 5.3 MGD ADF together, plus 3.0 MGD from the new clarifier, the total for all three will be to 8.3 MGD ADF. The two-hour peak flow would then become 16.6 MGD.

D. Design Considerations for Capacity Upgrade

A major concern in the recommended construction of an additional clarifier is the diversion of flow from the two aeration basins into three different clarifiers. Equipment design would be based upon "Envirex" equipment, to maintain the maximum degree of interchangability with the existing clarifiers.

The existing piping between the two process units (aeration and clarification) will have to be modified to achieve the desired influent flowrate to all three clarifiers. A new

"splitter-box" is recommended, which would become the equalization facility, receiving flow from both stabilization units and dividing the flow to the three clarifiers.

The proposed modifications include piping modifications from orbals to clarifiers (via the splitter box), clarifiers to screw pump sumps, and clarifiers to outlet discharge manhole (new clarifier only). Preliminary sketches of the proposed splitter box and yard piping are shown in figures 1, 2, 4, and 5.

Specifically, the 24" piping from the east orbal outfall box to the east clarifier will have a 24"x 24"x 18" tee installed with a 24" gate valve on the branch side, and a 24" gate valve on the downstream run side. The 24" piping will be extended to the splitter box. A similar situation is recommended to connect the west orbal to the splitter box. The valves installed on the existing lines will allow by-passing of the splitter box if conditions ever require it.

The splitter box will be fed by the two 24" lines from each orbal. The splitter box will have an influent portion (fed by the 24" pipes) and an effluent side. 18" piping will take flow from the effluent side to the three clarifiers. The effluent side will have four chambers, one for each clarifier and a fourth for future expansion. Each of the four chambers will have the amount of flow entering the chamber regulated by adjustable overflow weirs (Waterman, handwheel and yoke stainless steel weir gate). In this manner the desired flowrate to each clarifier can be maintained, and all of the flow entering the influent chamber can be independently apportioned to each of the clarifiers, regardless if one or four are in service.

The 18" piping from the splitter box will require another 24" x 24" x 18" tee, and 18" and 24" valves installed to connect to the 24" piping feeding each existing clarifier. 18" piping

and one 18" valve is recommended to connect the splitter box to the proposed clarifier.

The new clarifier will have 24" piping from its effluent box to the manhole where the existing 24" lines from the other clarifier discharges meet before entering a 27" pipe. The 27" pipe leads to the metering and chlorination/dechlorination facility.

Another concern in the construction of an additional clarifier is the return activated sludge rate from each clarifier. Presently the sludge from each of the two clarifiers travels through separate 18" pipes to the sump of the return sludge pumps (42" ϕ screw-type pumps). The return sludge pumps then deliver the sludge from separate clarifiers to separate stabilization units. The problem arises when there are three clarifiers with only two stabilization units: a means of drawing sludge evenly off each clarifier must be employed in order to keep the sludge blankets at the same level in each clarifier as well as keeping the return (as well as the waste) sludge rate the same to each stabilization unit.

It is recommended that a second flow-splitter box be constructed upstream of the sumps of the sludge return pumps. This will allow for equal return or waste rates, as well as allow the operator to maintain an even sludge blanket in the clarifiers. 18" piping will be required from the new clarifier to the screw pump sump splitter box.

With the implementation of the new discharge permit, it becomes more important that the new facilities be designed for the most efficient operation possible. Any changes that can be made to the existing units should be investigated also. For this reason, the addition of previously mentioned "Stamford" - type baffles is recommended to the new and existing clarifiers. These baffles aid in reducing the short-circuiting effects of density currents. Density currents set up due to changes in density between tank inlet water and tank

contents. The short-circuiting effect of these currents causes the clarifier to operate less efficiently than designed, thereby leading to a reduction in solids removal and its associated higher effluent TSS.

The baffles break up the short-circuiting flow path allowing the clarifier to remove solids more effectively. These baffles would project inward toward the clarifier center (at a 45° angle) from the outlet weir trough. These baffles would be of fiberglass construction and anchored with stainless steel hardware for corrosion resistance.

Equipment design would be based on "Envirex" equipment, to maintain the maximum degree of interchangability with the existing clarifiers.

A preliminary sketch is shown as figure 7.

E. Property Acquisition

The TNRCC presently requires buffer zones of at least 150 feet around any unit of the treatment facility. Installation of the new clarifier will require the purchase of a 15 feet wide strip of land at the northwest corner of the site approximately 50 feet long.

III. Sludge Recirculation Pumps

As mentioned previously, the sludge return pumps are two 42" diameter screw-type pumps. Each pump is rated at 3500 gpm, and they were installed in 1972. The TNRCC design criteria requires that the pumps have a return rate of 200 to 400 gpd per square foot of clarifier area. The criteria also requires 100% backup of the pumps.

Therefore, if a third clarifier is constructed then the pumps will each have to have their capacity increased to 4190 gpm (based on the 400 gpd/ft^2 underflow rate). City staff

proposes to implement this improvement in-house by installing new drives.

IV. Dissolved Oxygen

A. Current Requirement

The new discharge permit requires that the minimum dissolved oxygen (DO) in the plant effluent be no less than 6.0 mg/l. Post-aeration is required to consistently achieve this level.

To post aerate, the City staff has installed a rock cascade at the terminus of their outlet structure. Data collected by the plant staff from October 1, 1991 to September 27, 1993, showed that this cascade was generally imparting sufficient oxygen to the effluent to allow it to meet this newly imposed requirement. Average DO for this time period was 7.86, with only 21 days out of the 730 total being below the required 6.0 (less than 3%). In late 1993, the City further enhanced this cascade, and results have been consistently above 6.0 since that time. The improvement appears successful based upon the limited monitoring period available.

B. Required Modifications

Since the DO requirement is being met, no construction or operational changes are recommended. It is recommended that the DO continue to be monitored throughout 1994, and that no further improvements be undertaken in this contract.

V. Grit and Screenings Disposal

A. Current Description - Grit Removal & Screens

The existing grit removal device is a Smith and Loveless "Pista Grit" unit, Model 12. The recommended flow range for this unit is between 7 and 12 MGD. The manufacturer recommends that the peak design flow rate be contained within this range - thus, the 2-hour peak plant flow though this unit only would be limited to 12 MGD. Following the Pista grit unit, all flows are directed to the screenings building which

TABLE II
Dissolved Oxygen
11/1/93 - 01/24/94

DATE	EFF D.O. mg/L	DATE	EFF D.O. mg/L	DATE	EFF D.O. mg/L
11/01/93	8.20	12/01/93	8.50	01/02/94	9.30
11/02/93	8.40	12/02/93	8.40	01/03/94	9.60
11/03/93	7.50	12/03/93	9.20	01/04/94	6.40
11/04/93	8.40	12/04/93	7.90	01/05/94	8.30
11/05/93	8.40	12/05/93	7.50	01/06/94	9.30
11/06/93	8.50	12/06/93	8.50	01/07/94	9.50
11/07/93	8.00	12/07/93	8.90	01/08/94	10.20
11/08/93	8.50	12/08/93	8.20	01/09/94	9.40
11/09/93	8.30	12/09/93	8.90	01/10/94	9.60
11/10/93	8.30	12/10/93	8.20	01/11/94	8.80
11/11/93	8.00	12/11/93	9.10	01/12/94	8.50
11/12/93	7.80	12/12/93	8.60	01/13/94	9.00
11/13/93	7.80	12/13/93	8.50	01/14/94	9.20
11/14/93	7.60	12/14/93	8.90	01/15/94	9.70
11/15/93	6.60	12/15/93	8.90	01/16/94	9.10
11/16/93	8.50	12/16/93	8.80	01/17/94	9.80
11/17/93	8.70	12/17/93	8.00	01/18/94	9.90
11/18/93	8.50	12/18/93	6.30	01/19/94	10.00
11/19/93	8.20	12/19/93	6.20	01/20/94	10.00
11/20/93	7.10	12/20/93	7.80	01/21/94	9.20
11/21/93	7.50	12/21/93	9.50	01/22/94	9.00
11/22/93	9.00	12/22/93	9.40	01/23/94	9.10
11/23/93	9.00	12/23/93	10.00	01/24/94	9.40
11/24/93	7.40	12/24/93	10.80		
11/25/93	8.50	12/25/93	10.00		
11/26/93	8.40	12/26/93	9.50		
11/27/93	7.60	12/27/93	9.90		
11/28/93	7.90	12/28/93	9.40		
11/29/93	8.10	12/29/93	9.40		
11/30/93	8.10	12/30/93	8.50		
12/01/93	8.50	12/31/93	8.80		
MINIMUM	6.60	MINIMUM	6.20	MINIMUM	6.40
MAXIMUM	9.00	MAXIMUM	10.80	MAXIMUM	10.20
ARI AVG	8.11	ARI AVG	8.73	ARI AVG	9.23

contains 6 "Hycor" Model HS72 stainless steel static screens. The screens have a width of 72 inches, and a slot opening of .060 inches, which is a generally accepted standard for raw municipal wastewater.

Since BOD_5 removal across the screens is not included in design calculations, no standby capacity is required. These units would then limit plant capacity to a 10.11 MGD design flow, and a 12 MGD 2-hour peak.

Both the grit and screenings that come off these units contain a high percentage of liquids. New EPA regulations (Subtitle D) do not allow grit or screenings to be placed in a landfill if they cannot pass a paint filter test. The paint filter test requires a representative sample of a potential landfill product (i.e., grit or screenings) to be placed on a paper paint filter (60 mesh fine filter). If any portion of the sample penetrates the filter within 5 minutes, the sample is deemed to have free liquid content and therefore fails the test.

The grit and screenings from the Paris facility are so obviously wet that a paint filter test was not even conducted. The container where the screenings are deposited shows standing water in it, and the grit is so liquid that it is transferred from the grit chamber by means of a centrifugal pump.

Therefore, since the by-products of these units cannot be disposed of in a landfill in the current condition, it is recommended that they be processed to the point where they will pass the paint filter test and therefore be acceptable landfill material.

B. Solution

The recommended method of achieving this goal is processing these products through a Hycor "Hypress".

The recommended method of achieving this goal is processing these products through a Hycor "Hypress".

The Hypress unit consists of a hydraulic ram, hopper receiver, and friction cylinder. Screenings and grit enter the hopper where free water drains through slots before pressing action occurs by the hydraulic ram. The ram then advances pressing the screenings and grit into the friction cylinder. Dewatering and compacting is accomplished there while being conveyed to a dumpster. The water that is squeezed out is then pumped back to the head of the plant for further treatment. Periodically, the dumpster is then hauled away to dispose of the compacted/dewatered solids in the landfill.

It is recommended that the bay where the existing dumpster is located be converted to a dewatering facility by installing the Hypress unit below the discharge of the static screens. The discharge of the grit removal unit should be piped to this unit also. The dumpster will receive the dewatered product. A cover (fiberglass roof-steel columns - no walls) would be constructed extending from the front of the existing bay to cover the dumpster from rainfall.

This solution will also aid in the reduction of vector attraction and odors at the dumpster. The absence of free liquid will not only cut down on odors, but will also reduce the volume of waste that must be placed in the landfill. This reduction is a result of the removal of liquids from the screenings. The return of the liquid to the treatment train thereby reduces the weight and volume of the waste to be disposed of in the landfill. This should help to reduce disposal costs as well as help insure compliance with the landfill requirements.

Figures 3 and 6 illustrate the proposed dewatering improvements.

VI. Sludge Disposal

The City currently employees aerobic digestion for its excess activated sludge in a two step process. Initially the waste sludge is aerated in the outermost channel of the orbal stabilization units. On a daily basis, the sludge is allowed to become quiescent and supernate is decanted back into the inner channels. After the waste sludge is thickened to 0.5 to 0.75% solids in these channels it is transferred to aerobic digestion holding tanks where it is further thickened to an average concentration of about 2% before being pumped to the sludge field for land application. The sludge disposal operation involves three distinct phases: a.) sludge digestion and preparation; b.) sludge pumping; and c.) the sludge field itself.

A. Sludge Digestion and Preparation

In February 1993, the Environmental Protection Agency adopted new sludge use and disposal rules as 40 CFR 503. Following this in June of 1993, the TNRCC adopted parallel rules which are codified as 31 TAC (312). For all practical purposes the TNRCC 312 regulations are equally or more stringent than the EPA 503 regulations, and for the purposes of this report, references will be made to the TNRCC 312 regulations.

Essentially the City would have two broad choices for disposal of its sludge-landfilling or land application. In the landfill alternative the sludge would be dried until it is void of any free liquid (i.e. a paint filter test). Moisture and metals contents would have to comply with Subtitle D landfill regulations. Cost would be involved for drying of the sludge, most likely through a belt press or similar process, together with costs for hauling to the landfill, and a tipping fee for the actual cost of disposal. While not a strict requirement, EPA's general philosophy is to encourage land application in lieu of landfilling. Because of the increasing scarcity of landfill space, the cost of a sludge drying operation, and considering that the City has already made arrangements for the land application site and has had

this in operation for several years, it appears that the City's best course of action would be to continue with land application.

Under the 312 rules, land application can be for beneficial use, or for surface disposal. Essentially the use can be considered land application for beneficial use if the nitrogen loading rate as a result of the sludge application is within the normal uptake limits of the cover crop. The 312 regulations establish limits on heavy metals content, operational standards, management practices, and monitoring and reporting requirements. Under the 312 rules, three factors determine the basic suitability of sludge for beneficial land application. Land applied sludge must meet certain heavy metals concentrations described in the regulations; must fulfill a "vector attraction reduction requirement"; and must achieve pathogen reductions sufficient to be defined as either a class A or class B sludge. Class A sludge, which has the lowest pathogen levels, may be land applied or distributed to the public with few restrictions. Class B sludge which has higher allowable pathogen levels, may be applied to a site such as a City is currently using, but has more stringent controls including site boundary limits, restrictive soil characteristics, runoff prevention measures, weather and climate restrictions, topography, and depth-to-groundwater limits.

While the surface disposal option would allow sludge application to the site at higher rates than the beneficial use option, it also entails more stringent site restrictions, monitoring requirements, possible liner and leachate collection systems, and management requirements. It appears that the City has sufficient land available to qualify for the land application for beneficial use option and it would be in the City's best interest to operate the facility in that manner.

Figure 8 herein provides a flow chart developed by EPA for determining compliance with the 503/312 regulations. Any sludge applied must meet certain ceiling concentrations for heavy metals, which are shown in Table I of the regulations. A review of test reports provided on the Paris sludge indicated no problem in complying with these ceiling concentrations. For distribution on agricultural land, the pollutant metal concentrations are further restricted as shown in Table 3, herein. An analysis of the Paris sludge provided 9/24/93 is also shown on Table 3 and does not indicate any items which would fail to comply with the necessary pollutant concentrations.

Calculations shown on page 19 are taken from data provided in the City's 1993 EPA and TWC sludge reporting. These show an average solids retention time in the digestion process of around 33 days. During this time period the sludge is intended to be stabilized to meet the pathogen reduction (Class A or Class B) requirements and the vector attraction reduction requirements of the 312 regulations. For the sludge to meet the minimum Class B requirements for pathogen reduction the fecal coliform count must be measured in a minimum of seven samples of the sludge at the time the sludge is pumped to the application site. The geometric mean of the density of fecal coliform for the samples collected shall be less than 2 million MPN per gram of total solids. Fecal coliform tests performed by the plant operating staff indicate that this reduction is not being achieved at this time.

There are approximately 12 different vector attraction reduction opportunities listed in the 312 regulations. The two most cost-effective for Paris plant would involve continued use of the existing aerobic digestion equipment. The specific oxygen uptake rate (SOUR) for aerobically digested sludge qualifies for vector attraction reduction if it is less than 1.5 milligrams of oxygen per hour per gram of total solids at a 20° C temperature after the digestion process. In the alternative, if an aerobically digested

TABLE III
METAL CONCENTRATIONS

Metal	Texas Allowed Concentration *(Milligrams per Kilogram)	Paris Test** Results TS = 42,000 mg/k = 4.2%	Dry Wt. @ 4.2%
Arsenic	41	ND	-
Cadmium	39	ND	-
Chromium	1200	ND	-
Copper	1500	14.4	343
Lead	300	ND	-
Mercury	17	ND	-
Molybdenum	18	ND	-
Nickel	420	ND	-
Selenium	36	ND	-
Zinc	2800	42.1	1002

* Dry weight basis

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sewage sludge which has previously been digested and has a percent solids of 2% or less, is further aerobically digested in a laboratory bench scale unit for 30 days at a temperature between 20° and 22° C, and at the end of the 30 days the percent volatile solids in the sludge at the beginning of that period have been further reduced by less than 15%, vector attraction reduction is also achieved. It is possible to meet the vector attraction reduction requirement by simply obtaining a 38% reduction in volatile solids through the digestion process. In a activated sludge plant however, with aerobic digestion, it is difficult to achieve 38% on paper, since much of the reduction in volatile solids occurs during the recirculation process of the activated sludge and prior to it actually entering the digester.

Initial plant operating tests indicate that the sludge is not currently meeting the ultimate fecal coliform level for Class B classification. It is not known if it is meeting the vector attraction requirements. The most likely reason for these problems is inadequacy of the aeration system in the current digestion process. The aeration capabilities of the digestion channel in the orbal units appear adequate. However, the aerobic thickening and holding tanks are aerated each by a 20 horsepower mechanical aerator. The tanks are 25 ft. deep, and it is doubtful that mixing from the surface aerator extends much more than 4 or 5 ft. below the surface. In addition, the volume of the two tanks together is 88,700 cubic feet, which for adequate mixing would require approximately 90 horsepower per the "EPA Process Design Manual". Two mixers at 20 horsepower each provide a total of 40 horsepower, which is over 100% deficient in aeration capability. Therefore, no data is available on the performance of the holding/digestion tanks with adequate mixing and aeration. To obtain this data, a pilot program has been established where the north holding/digestion tank has been isolated and the liquid volume lowered to a level which will allow adequate mixing using the existing aerator. Data is currently being collected, and when available, will be

analyzed to determine the retention time necessary in the digester to achieve the required fecal coliform reduction. Assuming that this data is favorable, an aeration system would be designed to provide adequate mixing in the existing tanks. Some of the available literature indicates that a retention time as long as 60 days may be required at cooler temperatures. Sludge thickening beyond that currently accomplished by decanting may also be required to provide adequate detention time in the tanks.

1993 EPA sludge report -

4.16 MG liquid sludge applied; 984,485 lbs. solids.

$\frac{984,485}{4.16 \times 8.34}$ = 28,375 ppm = 2.8%

1993 TWC Sludge report -

4.6 MG sludge liquid applied; 897,732 lbs. solids.

$\frac{897,732}{4.6 \times 8.34}$ = 23,400 ppm = 2.3%

Use 2.5% annual average, 4.4 mg to field, and also 800,000 gals/yr to drying beds = 5.2 mg total.

Sludge enters digestor channel @ 0.5%, and is thickened to 0.75%. AVG solids in channel digestor is $\frac{0.5 + 0.75}{2}$ = 0.625%.

Volume of 2 channels is 120,668 CF.

5.2 MG x $\frac{2.5\%}{.625\%}$ → 20.8 MG @ 0.625%
= 56,986 gpd

$\frac{120,648 \times 7.48 \text{ gals/cf}}{56,986 \text{ gals/day}}$ = 15.8 days

Solids enter 2 digestor tanks @ 0.75% and leave @ 2.5%. AVG solids in tank is $\frac{0.75 + 2.5}{2}$ = 1.625%

Volume of 2 tanks is 88,694 CF, but they average only 60% full.

88,694 x 0.6 = 53,216 CF

5.2 x $\frac{2.5}{1.625}$ = 8.32 MG @ 1.625% = 22,794 gpd

$\frac{53,216 \times 7.48}{22,794}$ = 17.5 days

Sludge Retention time = 15.8 + 17.5 = 33.3 days.

B. Sludge Pumping

After the sludge has been treated in the digestors and holding tanks, it is removed by a centrifugal pump to the sludge field. This removal is accomplished with a 75 horsepower centrifugal pump and a 6" DR14 Class 200 PVC pipeline. On the disposal site, risers and valves have been permanently installed which allow 6" portable aluminum irrigation pipe to connect the main pipeline to "big-gun" irrigation nozzles. The spray covers approximately 2.5 acres in a circular pattern from each nozzle. The nozzles are designed to emit the liquid sludge without breaking the stream into tiny droplets, to minimize misting and odor. The nozzles are moved from place to place on the site to avoid runoff and excessive nutrient application in one location. The site is sectioned into different pastures and each can be isolated for the required 30 day period, during which grazing of cattle is not allowed after spray application.

Problems have been experienced with the pumping equipment due to the high pressures involved and, it is believed, due to solids and stringy material, and at times the viscosity of the waste sludge. It is found that the impellers must be replaced on the pump after a relatively small number of hours of operation.

Correction of this problem will likely involve replacement of the pump in question and/or protecting it with a screening device to remove the solids and stringy material upstream of the pump. Precise details of this cannot be designed, however, until the solids content of the material to be pumped is more clearly known. As previously discussed, this information will be derived at the end of the pilot study currently underway at the treatment plant on the digestion process.

C. Sludge Field

The site itself is 170 acres in size. Certain buffer zones are necessary under the 312 regulations. Buffer zone requirements prohibit application of the sludge within 200 ft. of waters of the State; 200 ft. of private water wells; 500 ft. from public water wells or intake structures; 300 ft. of occupied residences or public rights-of-way; and 1000 ft. of schools, institutions, or subdivision property lines. In addition, the sludge must be applied uniformly and cannot be applied on slopes of greater than 8%. After considering these buffer zones it would appear that the City has a usable area of around 97 acres out of the existing 170 acre lease. Using an agronomic rate for nitrogen loading of 415 net pounds per acre per year allowable, as provided to the City by the Soil Conservation Service, and 4.8 million gallons of sludge in 1992 at 1.88% solids, 46 acres would be the minimum required for land application at agronomic rates for the present plant flow and this would increase to about 72 acres by the time the plant reaches it permitted 7.25 mgd. The existing site appears large enough, therefore, under the current regulations.

312.44(g) of the regulations requires that the site soil permeability must be less than 6 inches per hour and preferably less than 2 inches per hour. For permeabilities between 2 and 6 inches per hour, seasonal high ground water levels must be greater than 4 feet deep. The only specific ground water data we have been provided was collected in July, which would not be considered a seasonally high ground water table. We recommend that the City conduct additional investigations during the wet periods of the year with respect to seasonally high groundwater and soil permeability on the site. It appears that the regulations may allow for variances in certain instances, should seasonally high groundwater be a problem.

VII. Summary and Conclusions

In summary, the constraints imposed by new State and Federal regulations require several improvements and modifications to the existing Paris wastewater treatment plant. Analysis of the various units studied in this report offers the following conclusions:

1. The two existing clarifiers are limited by the "effective volume" requirement to a rated capacity of 6 MGD ADF total flow through both clarifiers, with a 2-hour peak flow of 12 MGD. Both of these values are below their respective permitted values. These two clarifiers will be too small to consistently achieve the new BOD_5 and TSS reduction requirements.
2. The sludge return pumps presently have a capacity of 3500 gpm total, even though each pump can pump that much sludge, because of the 100% standby capacity requirement of the TNRCC. At 3500 gpm they are only adequate for a treatment flow of 5 MGD.
3. Presently the plant records show dissolved oxygen and ammonia nitrogen to be well within the permitted requirements.
4. The grit and screenings are too wet to be placed in a landfill.
5. The recommended improvements will bring the rated capacity of the plant to 8.3 MGD. The limiting factor, according to this report, is the capacity of the modified sludge return pumps.

Table IV below gives a summary of the recommendations in this report.

TABLE IV
Recommendations

Unit	Proposed Changes
Clarifiers:	Add one additional 80 foot diameter clarifier with 13' walls, one flow splitter box, and 18" and 24" piping to bring the combined rated capacity up to 8.3 MGD and the 2 hour peak flow up to 16.6 MGD.
Sludge Return Pumps:	Modify the drive units so that each pump will deliver 4200 gpm. This will bring the rated capacity to 8.3 MGD ADF.
Dissolved Oxygen, Ammonia Nitrogen:	Continue monitoring to insure compliance, no changes recommended.
Grit Removal, Screening:	Pipe discharge of both units to dewatering unit, discharge dewatering unit into dumpster, build shelter for dumpster adjacent to screenings building, pump liquid from dewatering process back to head of plant.
Sludge Digestion:	Complete pilot study and issue supplemental report.

VIII. Cost Projection

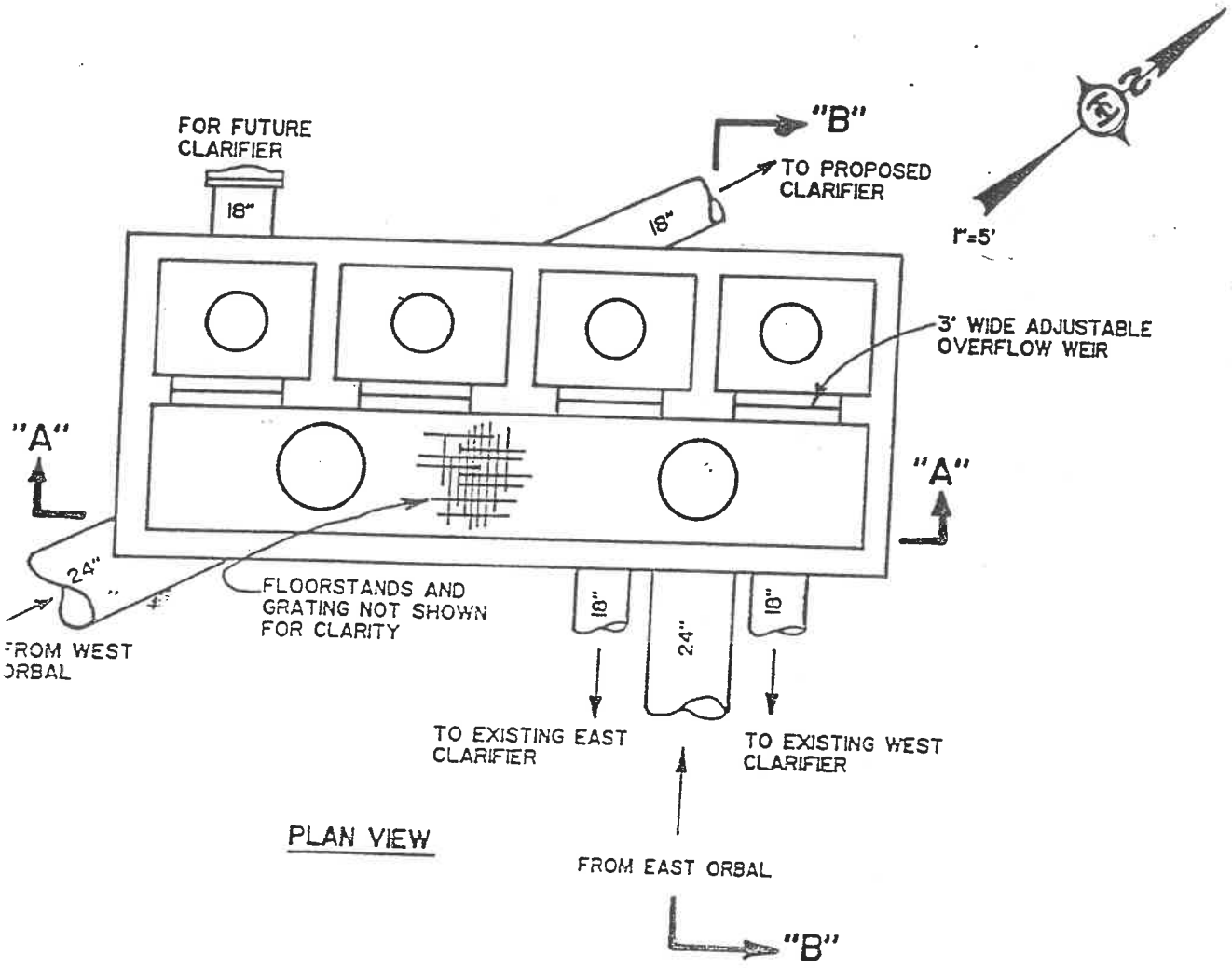
The cost projection for the construction of the recommended improvements to the Paris wastewater treatment plant are included in Table V.

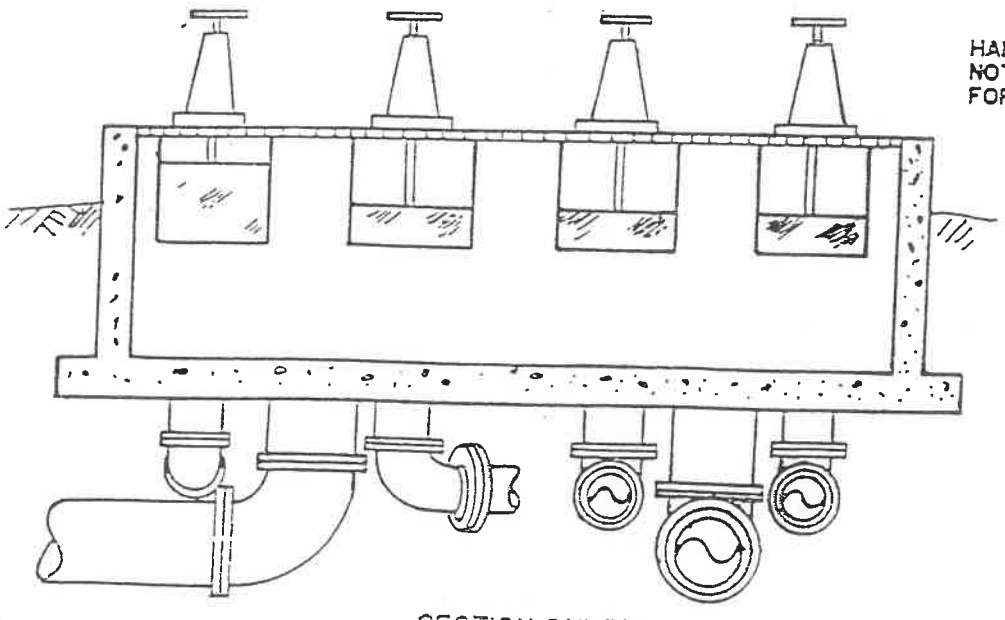
TABLE V
City of Paris
Cost Projection
Wastewater Treatment Plant Improvements

1.	Grit and Screenings Dewatering Facility	
	Hycor Hypress equipment	30,000
	installation	20,000
	building & concrete work	23,000
2.	New Clarifier 80′ diameter	
	equipment	87,500
	structure	300,000
	installation, piping, etc.	45,000
	Stamford baffles	60,000
3.	Splitter/diversion structures installation	68,400
4.	Yard Piping	107,900
5.	Site Improvements	
	paving and landscaping	12,000
6.	Electrical and controls	62,700
	TOTAL CONSTRUCTION	$ 801,500
	Contingency (10%)	$ 80,000
	SUB-TOTAL	$ 881,500
	Land or easement acquisition	3,000
	Engineering - Basic	130,000
	Soils Investigation	4,000
	Inspection	38,000
	Testing	5,000
	Surveying, Permits, Other Technical Services	25,000
	TOTAL PROJECT	$1,086,500

APPENDIX

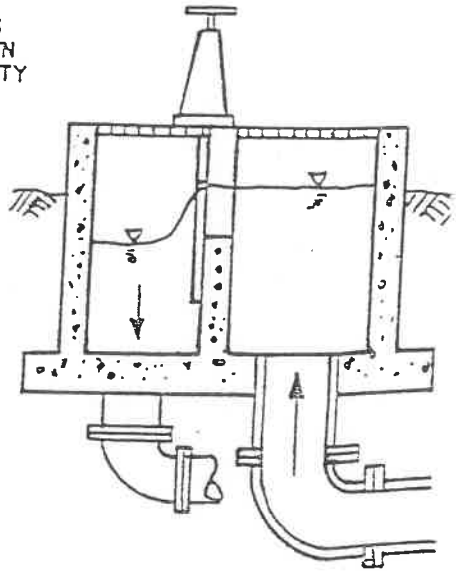
FIGURE 1
FLOW SPLITTER BOX
PARIS W.W.T.P.





SECTION "A"-"A"

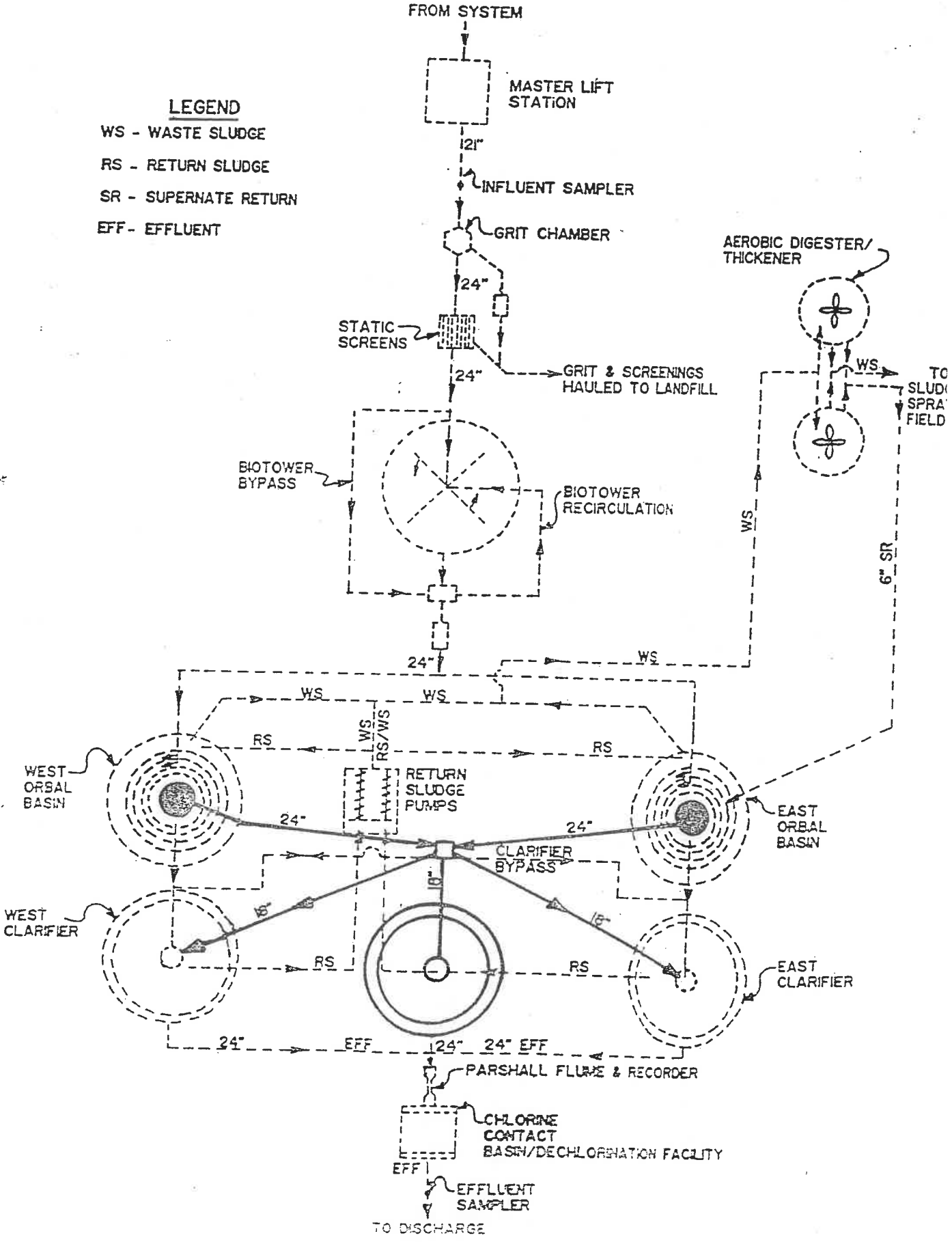
HANDRAILS NOT SHOWN FOR CLARITY



SECTION "B"-"B"

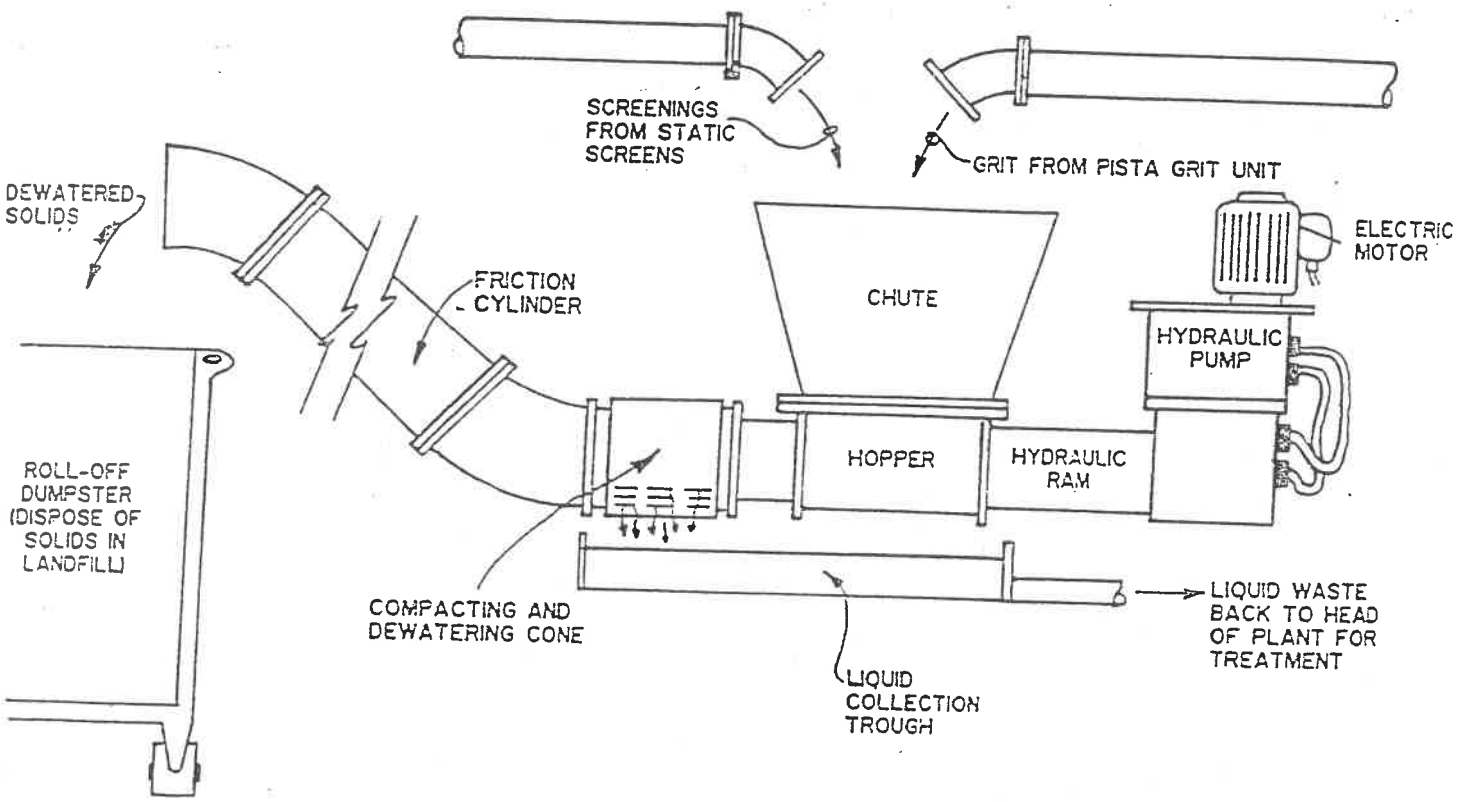
A-GB-ITH-1

PROPOSED PIPING
PARIS W.W.T.P.



A-048-172-1

FIGURE 3
DEWATERING FACILITY
PARIS W.W.T.P.
N.T.S.



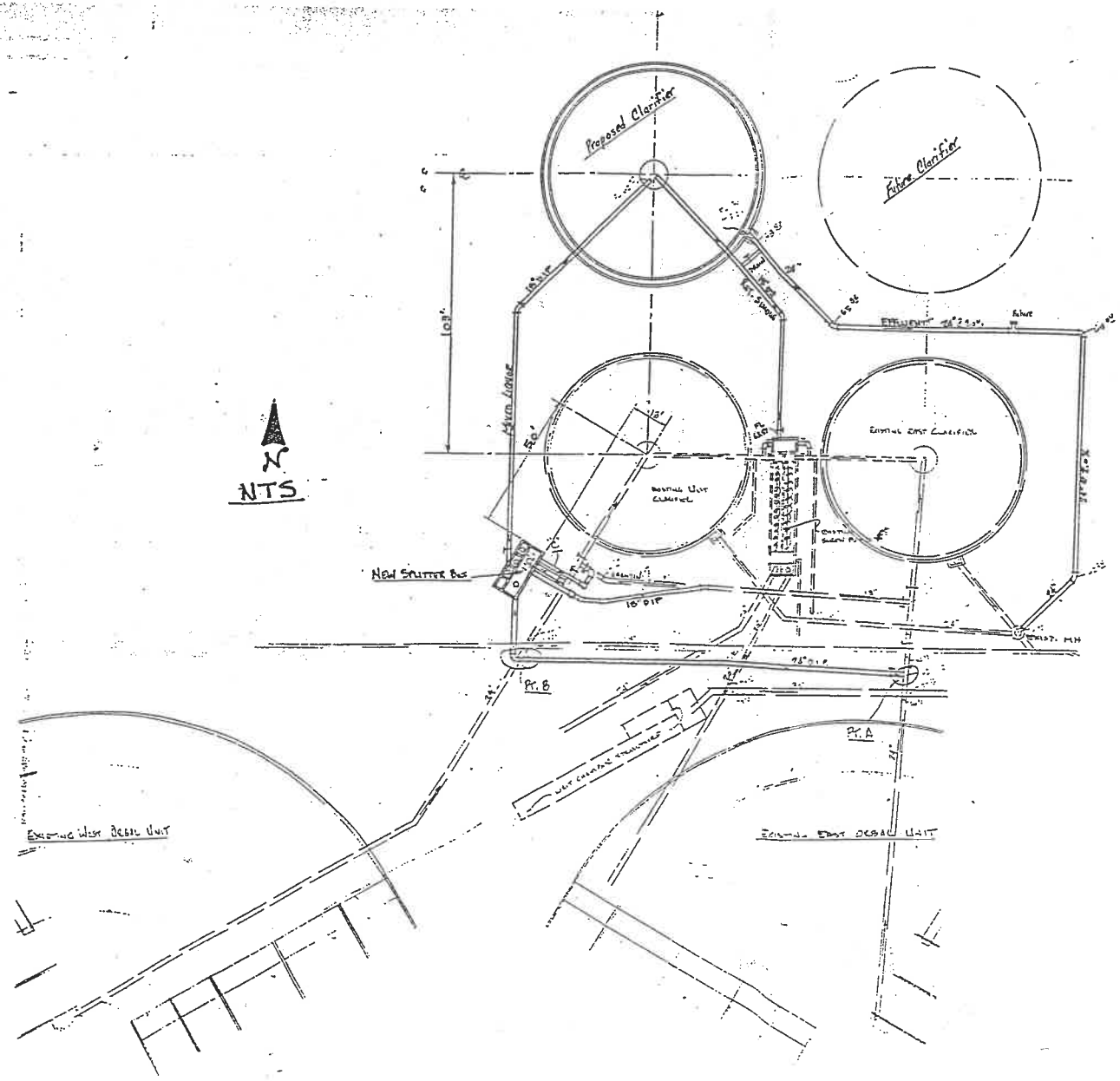


FIGURE 4

HAYTER ENGINEERING, INC.
4445 S.E. LOOP 256
PARIS, TEXAS 75460

PIPING & LAYOUT PLAN
PRE-LIM ENGINEERING REPORT
CLARIFIER EXPANSION
PARIS WWTP 1/94

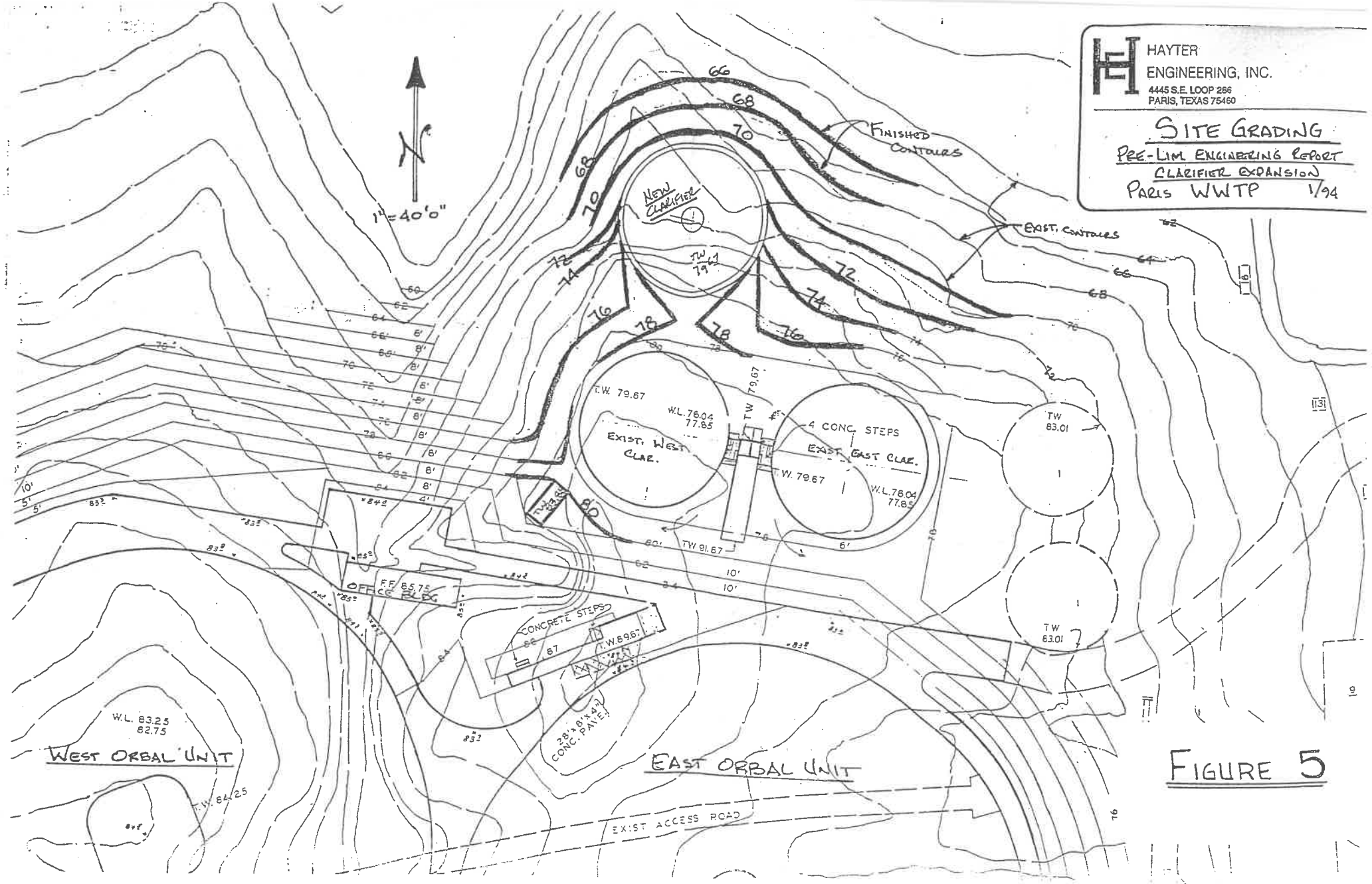
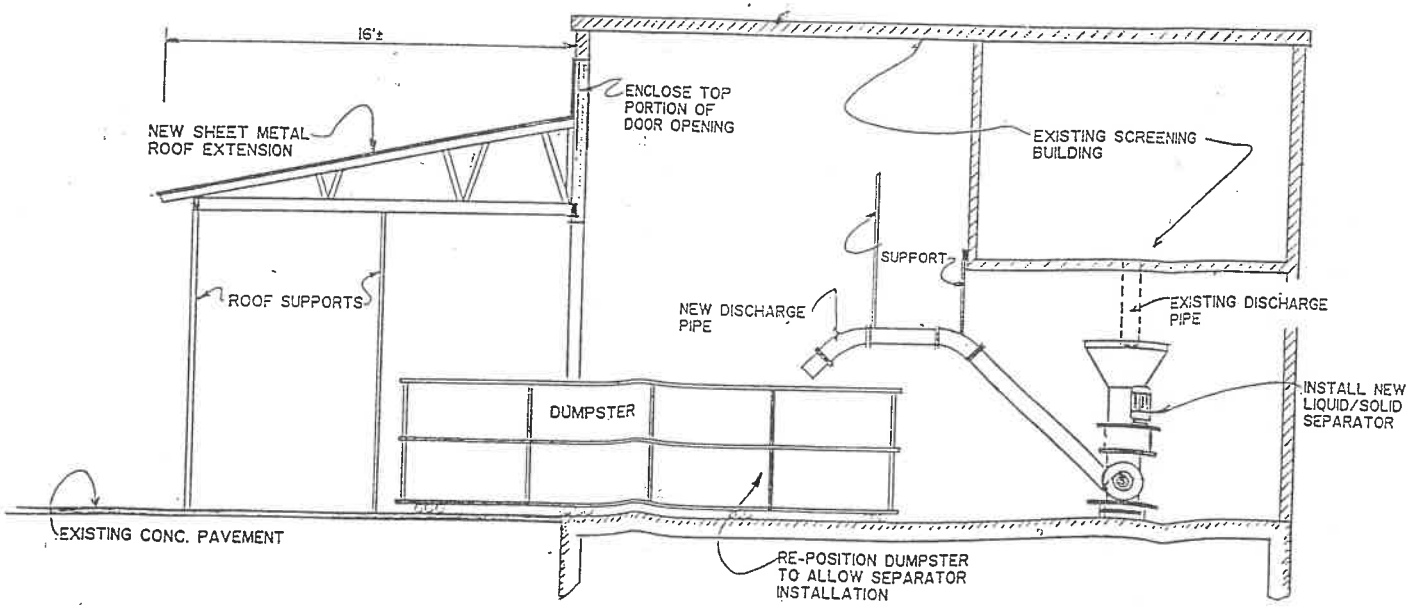

HAYTER
ENGINEERING, INC.
4445 S.E. LOOP 286
PARIS, TEXAS 75460
SITE GRADING
PRE-LIM ENGINEERING REPORT
CLARIFIER EXPANSION
PARIS WWTP 1/94
1"=40'0"
FINISHED CONTOURS
EXIST. CONTOURS
NEW CLARIFIER
EXIST. WEST CLAR.
EXIST. EAST CLAR.
4 CONC. STEPS
T.W. 79.67
W.L. 76.04
77.85
T.W. 91.67
OFFICE BLDG.
F.F. 85.75
CONCRETE STEPS
T.W. 89.67
28'x8'x4" CONC. PAVE.
T.W. 84.25
W.L. 83.25
82.75
T.W. 83.01
WEST ORBAL UNIT
EAST ORBAL UNIT
EXIST ACCESS ROAD

FIGURE 5

HAYTER
ENGINEERING, INC.
4445 S.E. LOOP 286
PARIS, TEXAS 75460

LIQUID/SOLIDS SEPARATOR INSTALLATION

PRE-LIM ENGINEERING REPORT
PARIS WWTP 1/94



SECTION THRU SCREENING WASTE COLLECTION ROOM
NO SCALE

FIGURE 6

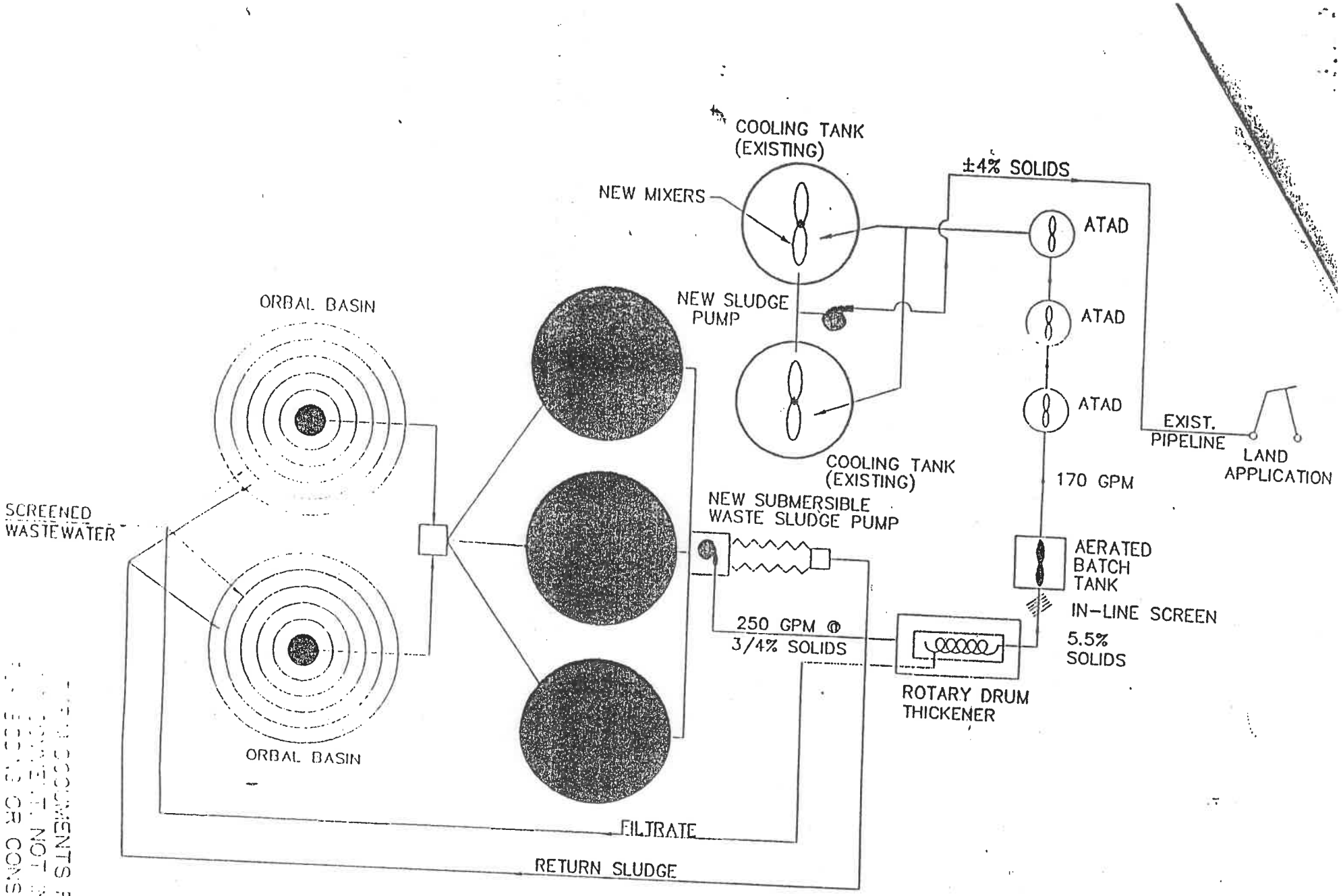
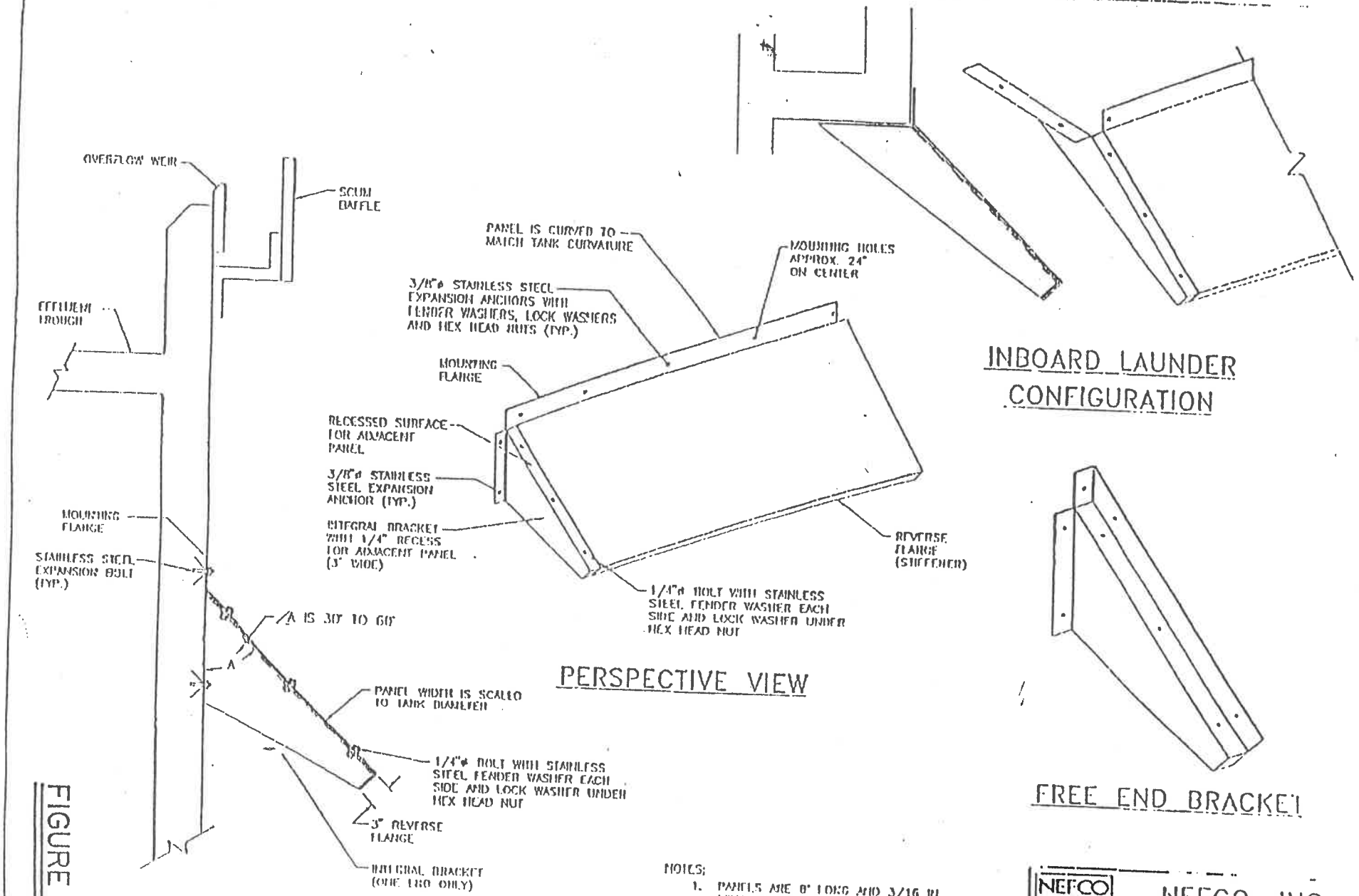


FIGURE 6
ALTERNATE 3–ATAD WITH LAND APPLICATION
CITY OF PARIS

INCLUDES ONLY THE
COMPONENTS FOR REVIEW
GENERATION TREATMENT
FACILITIES OR CONSTRUCTION



PERSPECTIVE VIEW

OUTBOARD LAUNDER CONFIGURATION

INBOARD LAUNDER CONFIGURATION

FREE END BRACKET

FIGURE 7

NOTES:

1. PANELS ARE 8' LONG AND 3/16 IN MINIMUM THICKNESS.
2. CORROSION-RESISTANT FIBERGLASS WITH 30% MINIMUM GLASS CONTENT.
3. ISOPHTHALIC RESIN WITH UV SUPPRESSION.
4. COLOR IS BLACK.
5. MOUNTING HOLES ARE FIELD DRILLED.
6. FIELD CUT PANELS, AS REQUIRED.

NEFCO, INC.
P.O. BOX 10491
PALM BEACH GARDENS, FL 33420-0491
TEL/FAX: (407) 775-9333

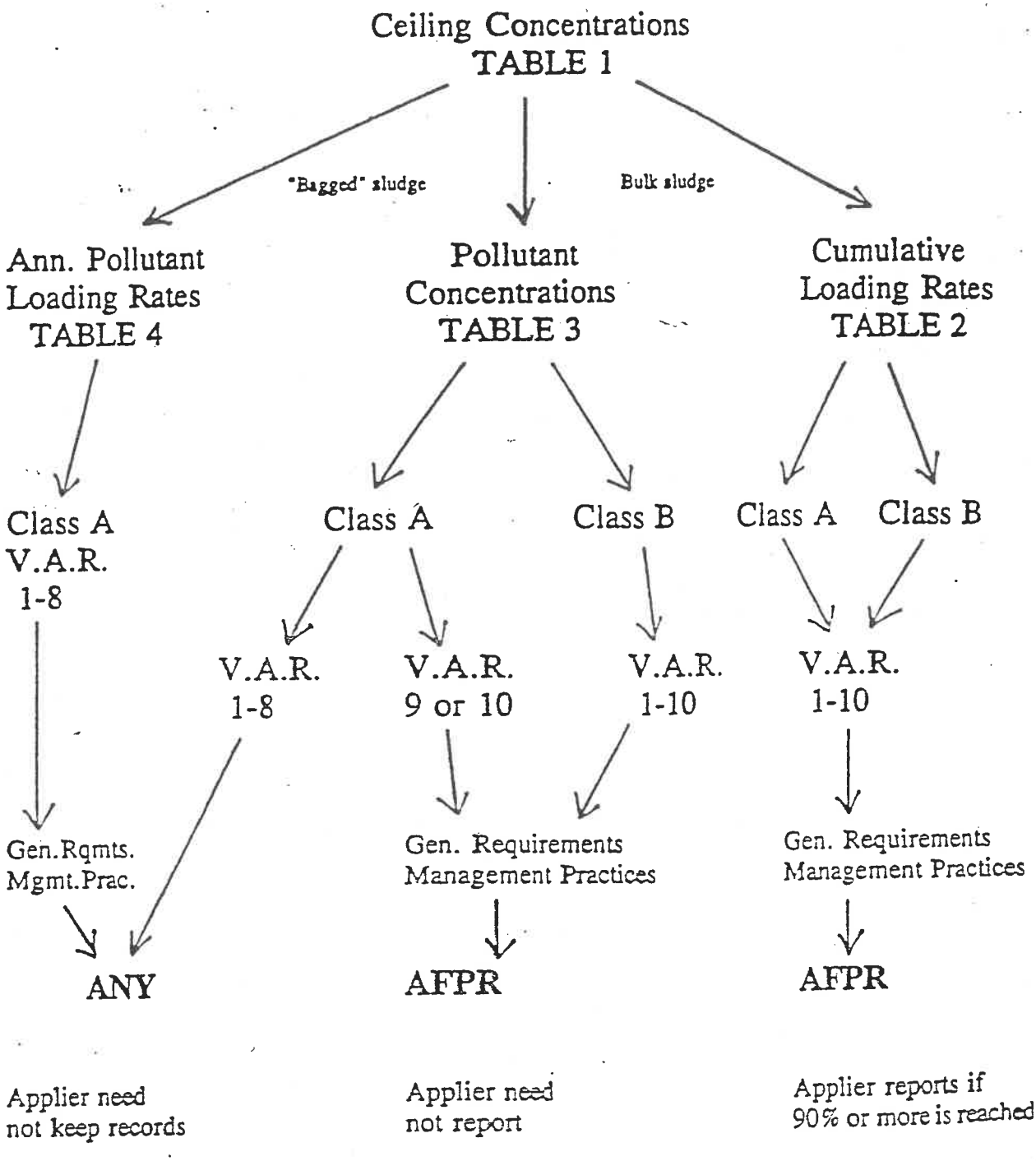
DENSITY CURRENT BAFFLE SYSTEM

DATE: 6-11-93 DRAWN BY: R. LOVOI

SCALE: NTS

A-018-177-1

LAND APPLICATION



AFPR = Ag. Land, Forest, Public Contact Site, Reclamation Site
ANY = Same as AFPR but also includes Lawn and Home Garden

FIGURE 8

SUPPLEMENT #1
DESIGN MEMORANDUM
WASTEWATER TREATMENT PLANT IMPROVEMENTS
CITY OF PARIS
DECEMBER, 1994
SLUDGE PROCESSING IMPROVEMENTS

INTERIM DOCUMENTS FOR REVIEW
AND COMMENT. NOT INTENDED
FOR BIDDING OR CONSTRUCTION.

HAYTER
ENGINEERING, INC
CONSULTANTS PLANNERS ENGINEERS

4445 S.E. LOOP 286
PARIS, TEXAS 75460
(214) 785-0303

TABLE OF CONTENTS

SUMMARY

In February, 1994, a design memorandum was completed recommending certain improvements to the City of Paris Wastewater Treatment Facilities to comply with recent federal regulations and revisions to the City's discharge permits. The memorandum indicated that sufficient data was not then available in order to compare alternative proposed sludge handling facilities, and that a pilot study was underway to develop the data. The pilot study has now been completed, and this supplement is based upon information obtained therein. This supplement evaluates three alternatives for processing of the City's sludge as follows:

1. Minimal aerobic digestion, followed by belt press dewatering, and ultimate disposal in a Class 1 landfill, in accordance with EPA regulations at 40 CFR 258.

2. Aerobic digestion and gravity dewatering for an extended period (at ambient temperature) to achieve a "Class B" sludge designation as defined in TNRCC rules at 31 TAC 312 and EPA regulations at 40 CFR 503. The Class B sludge would be pumped to the existing spray field for ultimate disposal by land application for beneficial use.

3. Rotary sludge thickening, followed by Autoheated Thermophilic Aerobic Digestion (ATAD) to achieve a Class A sludge as described in the rules cited above. The Class A sludge would be pumped to the existing spray field for ultimate disposal by land application for beneficial use.

Initial screening of various Class A sludge technologies, such as composting, chlorination, and lime stabilization, indicates ATAD as most feasible for the Paris plant. Consideration included life cycle cost estimate,

operation and maintenance, odors, and the need to remain with a spray process for ultimate disposal.

This supplement concludes that, while the initial capital cost for the ATAD Class A sludge is significantly higher than the other options, it has significant operative and maintenance savings, which will result in the least annual cost to the City when considered over a 20-year design life.

PILOT STUDY

Sufficient data was available to compare life-cycle costs for options 1 and 3. Option 2, however, involves an extended period of aerobic digestion, and only limited data was available as to the ability of aerobic digestion at ambient temperatures to meet VSS reductions and pathogen controls established in the new state and federal regulations, and particularly for the sludge from the Paris treatment process.

While the City has employed aerobic digestion for a number of years, at current solids loadings the floating mechanical aeration system does not provide adequate mixing nor aeration of the sludge to achieve the newly required volatile solids and pathogen reduction levels.

Sewage sludge typically includes contaminants such as bacteria, protozoa, viruses and helminth ova, which can cause diseases - usually enteric diseases - through direct human contact with the organism, or through the ingestion of an infected animal. These contaminants are expensive and difficult to detect. Experience has shown, however, that the fecal coliform count can serve as an indicator of the degree of treatment. Fecal coliform is a fairly routine test. Thus, a reduction in fecal coliform count to below 2 million MPN per gram total solids (dry weight basis) is required for Class B status. This count is to be the geometric mean of at

least 7 separate samples. The reduction is of a meaningful magnitude - for example, at the start of the pilot study, the coliform count of the return activated sludge was recorded at over 6 billion MPN per gram.

Currently, the Paris plant produces about 5.2 million gallons of sludge per year at around 2.5% solids. The sludge is aerobically digested and thickened (by decantation) and has a total SRT in the digestion process of around 33 days (annual average). Sludge production would increase to 8.9 MG/year by straight-line extrapolation at the plant design flow of 7.25 mgd.

The aerobic digestion process relies on the air supply for mixing and to support the biological organisms necessary for digestion. The present process is two stage - the sludge is first wasted to the outer channel of the orbal basins, at about 0.5% solids. It is aerated and thickened by decantation to about 0.75% solids, and is then periodically pumped to the old anaerobic digestion tanks, where it is further aerobically digested and thickened to around 2.5% solids before being pumped to the spray application site.. At current flows, this theoretically provides about 33 days solids retention time in the digestion process.

To determine if the current procedures meet the 312 regulations tests were made on the sludge discharged to the spray field on October 14, 1993 and August 31, 1993. For Class B status, the geometric mean of the fecal coliform count in 7 samples must be less than 2 million colonies per gram. The spray occurrence on 8/31/93 had a geometric mean of 10.8 million colonies per gram, and the occurrence on October 14 had a mean of 4.2 million colonies per gram. The pathogen reduction requirement is thus not being met.

Two methods of determining compliance with the vector attraction reduction requirements are provided in the 312 regulations - a 38% reduction in volatile suspended solid through the digestion process

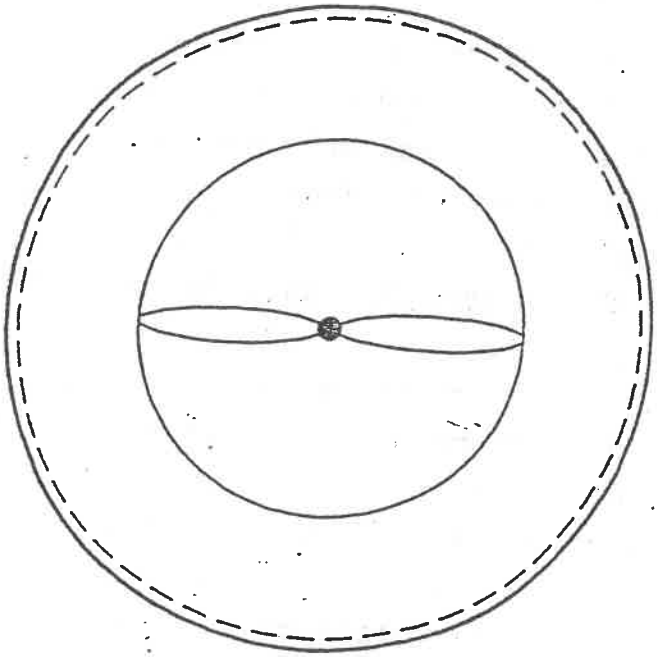
can be demonstrated, or, the specific oxygen uptake rate (SOUR) o the digested sludge can be less than 1.5 grams 0_2 per hour per gra of total solids. For this plant, the SOUR test was considered mos appropriate, because of the difficulty in defining where digestio actually begins in an activated sludge plant. As noted in the EP publication "Reduction of Pathogens and Vector Attraction i Sludge",

"Frequently, aerobically digested sewage sludges are circulated through the aerobic biological wastewater treatment stage for as long as 30 days. In these cases, the sewage sludge entering the aerobic digester is already partially aerobically digested. It is difficult then to demonstrate an additional 38% volatile solids reduction. The SOUR method for determining vector attraction reduction in this type of sewage sludge has been developed. This method depends on the rate of oxygen uptake of the sewage sludge."

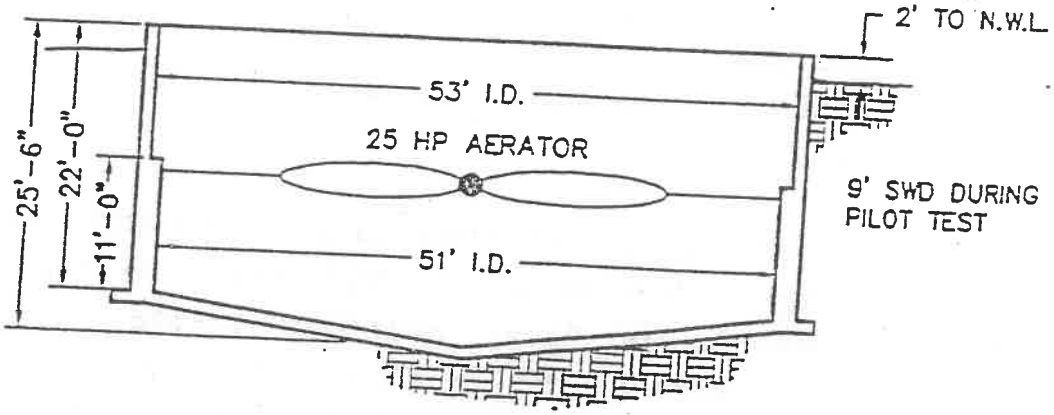
SOUR is the acronym for the "Specific Oxygen Uptake Rate" test. This is defined as the mass of oxygen consumed per unit time per unit mass of solids. The test results are normally expressed in milligrams of oxygen consumed per hour per gram of solids (dry weight). The test measures the rate at which oxygen is consumed by microorganisms in the sludge. As this rate slows, it indicates that there is less and less decomposable material, and thus less likelihood of odors which would attract rodents, flies and similar vectors.

The 312 regulations require that the specific oxygen uptake rate of the aerobically digested sludge be less than 1.5 grams 0_2 per hour per gram of total solids. On 12/20/94, the Paris sludge in the north digester/thickness tank had a SOUR of 2.2, based upon total solids.

Thus, the current practice does not appear to meet either vector attraction reduction nor pathogen reduction requirements.



PLAN
EXISTING AEROBIC
DIGESTER
(NORTHERNMOST OF TWO)



SECTION

INTERIM DOCUMENTS FO
AND COMMENT. NOT INT
FOR BIDDING OR CONSTF

FIGURE 1
PILOT STUDY
PARIS WASTEWATER TREATMENT PLANT
AEROBIC DIGESTERS

Because of the recent nature of the regulations, little practical guidance is available as to the aerobic detention time required to achieve the desired reductions. Further, it was known that the Paris digestion facilities are substantially deficient in air supply and mixing capability. A pilot test was therefore devised, to obtain specific data for the plant.

Beginning on December 20, 1993, the north digester tank was completely drained of sludge, cleaned, and refilled with sludge to about 13 feet below the top of the wall. This provided an effective SWD of 9 feet, and a volume of 20,418 CF under aeration, using a 25 HP floating aerator. EPA's operations manual "Sludge Handling and Conditioning" suggests a need for 1.0 to 1.25 HP/100 CF for aerobic digestion, and manufacturer's literature for the aerator at the Paris plant suggests that it can operate up to 11 feet in depth without a draft-tube extension. This performance may be somewhat reduced since the % solids were in excess of 2% during the test, but the pilot is felt to be substantially more representative of good aeration practice than the current operational mode of the digester. From December 20 through January 10, the sludge was aerated, decanted, and new sludge added, until the solids content reached about 2.5%. From January 10 through January 31, aeration was continued with no new sludge added nor any decantation.

As shown in the attached graphs, the SOUR fell below the specified level within about 21 days from the start of the test. The reduction in fecal coliform levels to less than 2 million colony/gram was more difficult to achieve, requiring 42 days in the digestion tank. This sludge was originally transferred to the digester tanks from the clarifier return sludge flow, and had not previously undergone digestion on the outer channel of the orbal basins.

Average sludge temperature in the digester tank during the test was

11° C. Sludge temperature at the facility has been recorded as lo as 4° C on a one-day basis.

State and federal regulations appear to contain a conflic regarding the SOUR test. Both TNRCC 312.7(c)(7) and EPA 503.8(6 stipulate that the test will be performed in accordance with Part 2710 B of "Standard Methods for the Examination of Water and Wastewater", 18th edition. This publication calculates the oxygen uptake rate per unit mass of the volatile solids content of the sludge. However, both TNRCC 312.83(a)(4) and EPA 312 503.31(h) both define the SOUR in terms of unit mass of total solids (dry weight basis) in the sewage sludge.

Referring to Figure 2, based upon TSS, the SOUR in the pilot study dropped below the required limit in 24 days. Based upon VSS, 35 days were required. While the difference is significant, it appears that the fecal coliform reduction will be a more difficult requirement than SOUR reduction, and its timeframe will control the length of the overall digestion process.

The digestion process will proceed more slowly as temperatures decrease. Further, the probability exists of future sludge with pathogen levels greater than those in the pilot study. A first order reaction equation was used to adjust for a design sludge temperature of 8° C, increasing the recommended detention time to 50 days. Further, the initial pathogen content is roughly inversely proportional to sludge age. With future higher loadings on the plant, sludge age will decrease, thus increasing the initial pathogen loadings to the digester. To account for this, a 25% safety factor was employed, resulting in a 62 day recommended digestion capacity.

This digestion capacity will be utilized to develop Alternate 2 herein.

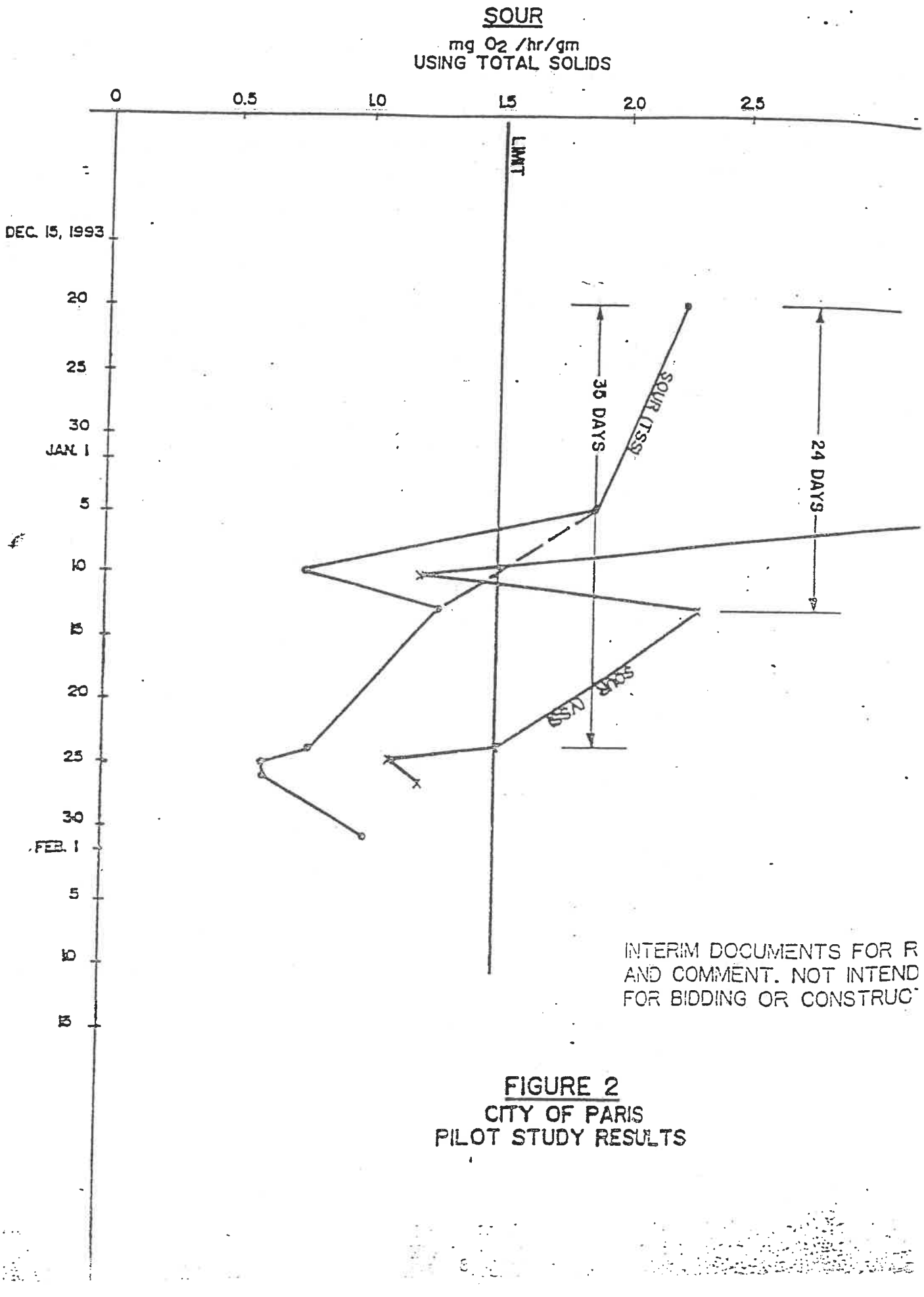


FIGURE 2
CITY OF PARIS
PILOT STUDY RESULTS

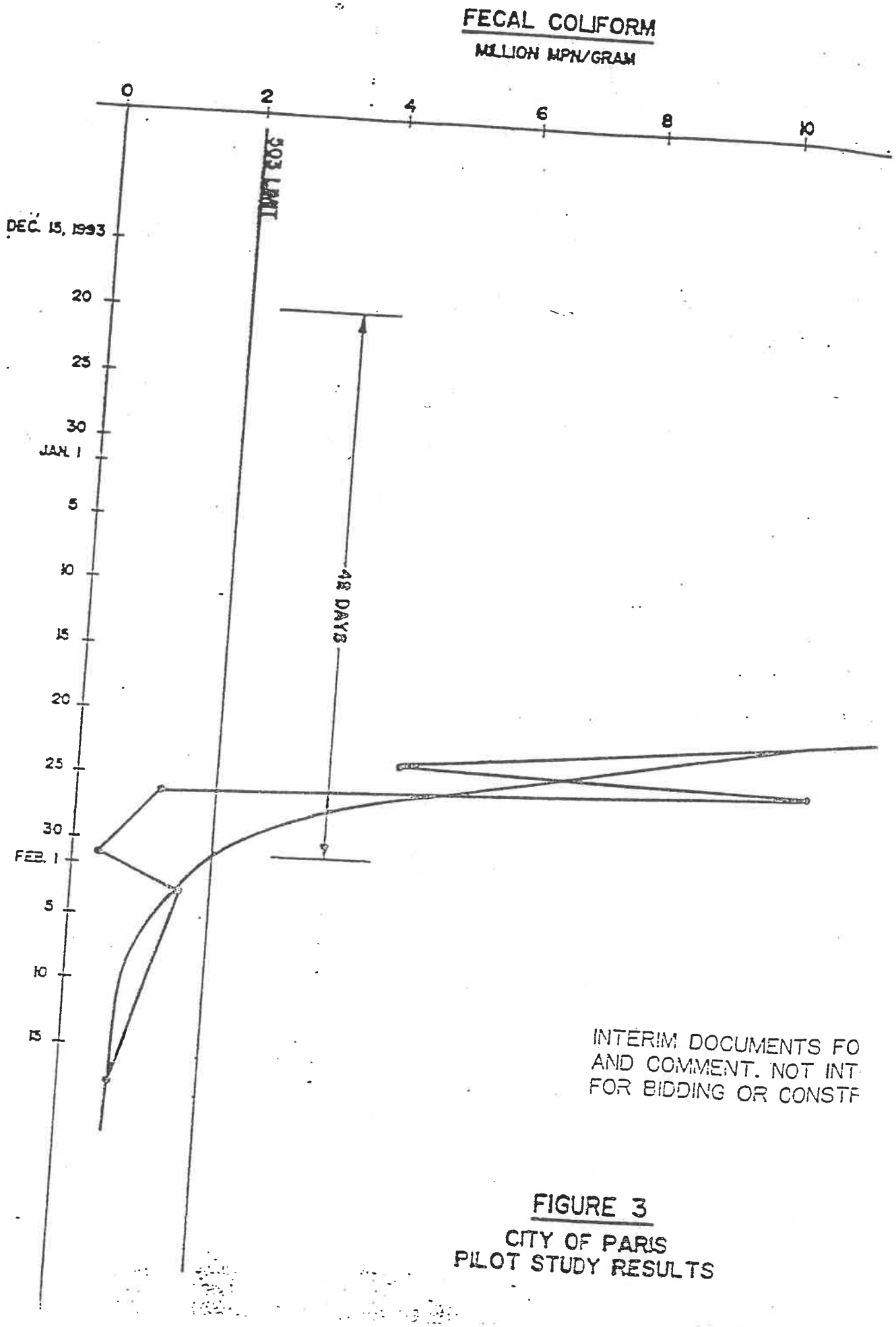


FIGURE 3

CITY OF PARIS
PILOT STUDY RESULTS

ALTERNATE 1 - LANDFILL DISPOSAL

Figure 4 contained herein, provides a proposed schematic operating procedure if the City disposes of its sludge at a sanitary landfill. Disposal at a Type 1 landfill is allowed under federal regulations sub-part 258, sub-title D, of the Resource Conservation and Recovery Act, provided that the sludge is non-hazardous, as evidenced by passing a Toxicity Characteristic Leaching Procedure (TCLP), and that it contain no free moisture as evidenced by passing a paint filter test. Paris sludge has been previously tested per TCLP, and is non-hazardous. To pass the filter test, the sludge would be dewatered by belt press to somewhere between 25 and 30% solids. Prior to the belt press, the sludge would be aerobically digested for at least 15 days in the existing channels and digestion tanks (retrofit tanks with larger aerators), and thickened by decanting to 3 or 4% solids. The belt press operation would be housed in a pre-fab steel building, with concrete foundation. Two presses, each 1 meter size would be supplied, to allow flexibility and stand-by capacity. The belt press would be fed at a rate of approximately 50 gallons per minute, by centrifugal pump. Polymer would be added as required in order to assist in separating the liquid from the solids. Sludge exiting the belt press would be discharged to a conveyor belt. The conveyor belt would discharge into a large dump truck or similar conveyance, and approximately once per day, the dried sludge would be transported across U.S. 271, about 4 miles to the nearest landfill, which is that owned by B & B Sanitation. Filtrate and belt washwater would be returned to the head of the plant.

This alternative has the lowest initial capital cost of various methods considered. However, it has the highest operating and maintenance cost, not only due to the cost of operating and maintaining the belt press facility, but also to the tipping fees incurred at the landfill itself. These fees have been estimated at $7.00 per cubic yard, but could vary with actual contract negotiations.

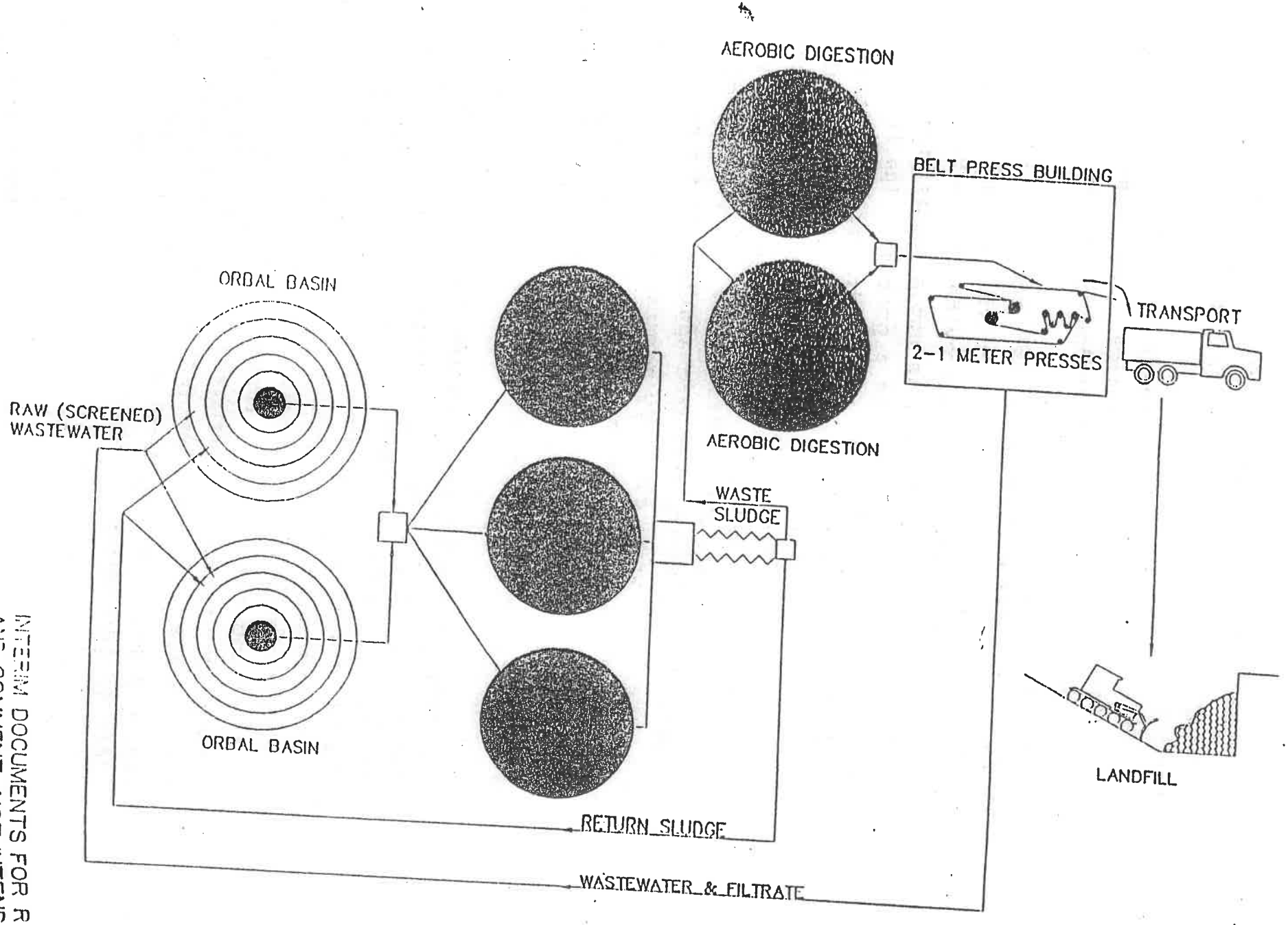


FIGURE 4

It is important to note that both the State of Texas, and the EPA, have adopted waste management hierarchies. While 40 CFR 503.6 specifically states

> "This part does not require the selection of a sewage sludge use or disposal practice. The determination of the manner in which sewage sludge is used or disposed is a local determination."

in fact, the stated policy of EPA regarding municipal sludge management is that the EPA "will actively promote those municipal sludge management practices that provide for the beneficial use of sludge ...". Since landfilling is not a "beneficial" use, it can be expected to be discouraged as a process. The 1994 "Municipal Solid Water Plan for Texas" lists, in order of preference, 6 methods for municipal sludge management -- of these, landfilling is the very last. Goals stated in that plan include "reduce the amount of wastes disposed of in MSW landfills by 40% by the year 2000"; and "increase the beneficial use and recycling of municipal sludge". Again, moving from land application for beneficial use, to landfilling, while currently permissible, would be contrary to state and federal environmental goals.

Table I herein illustrates the capital and annual O & M costs associated with landfill disposal.

ALTERNATE 2 - AEROBIC DIGESTION AND LAND APPLICATION

Figure 5 herein provides a schematic outline for this alternate. The EPA 503 rules and TNRCC 312 rules allow land application of class B sludge with certain buffer zone requirements and site access restrictions. To qualify as Class B, the sludge must meet specified limits on various heavy metals, which the sludge produced at Paris appears to meet. Further, it must meet certain vector attraction reduction requirements, and pathogen reduction requirements. As described earlier herein, it appears that the sludge produced at the Paris plant will meet these requirements after 62 days aerobic digestion. The pilot study, and available

TABLE I
City of Paris
ALTERNATE 1

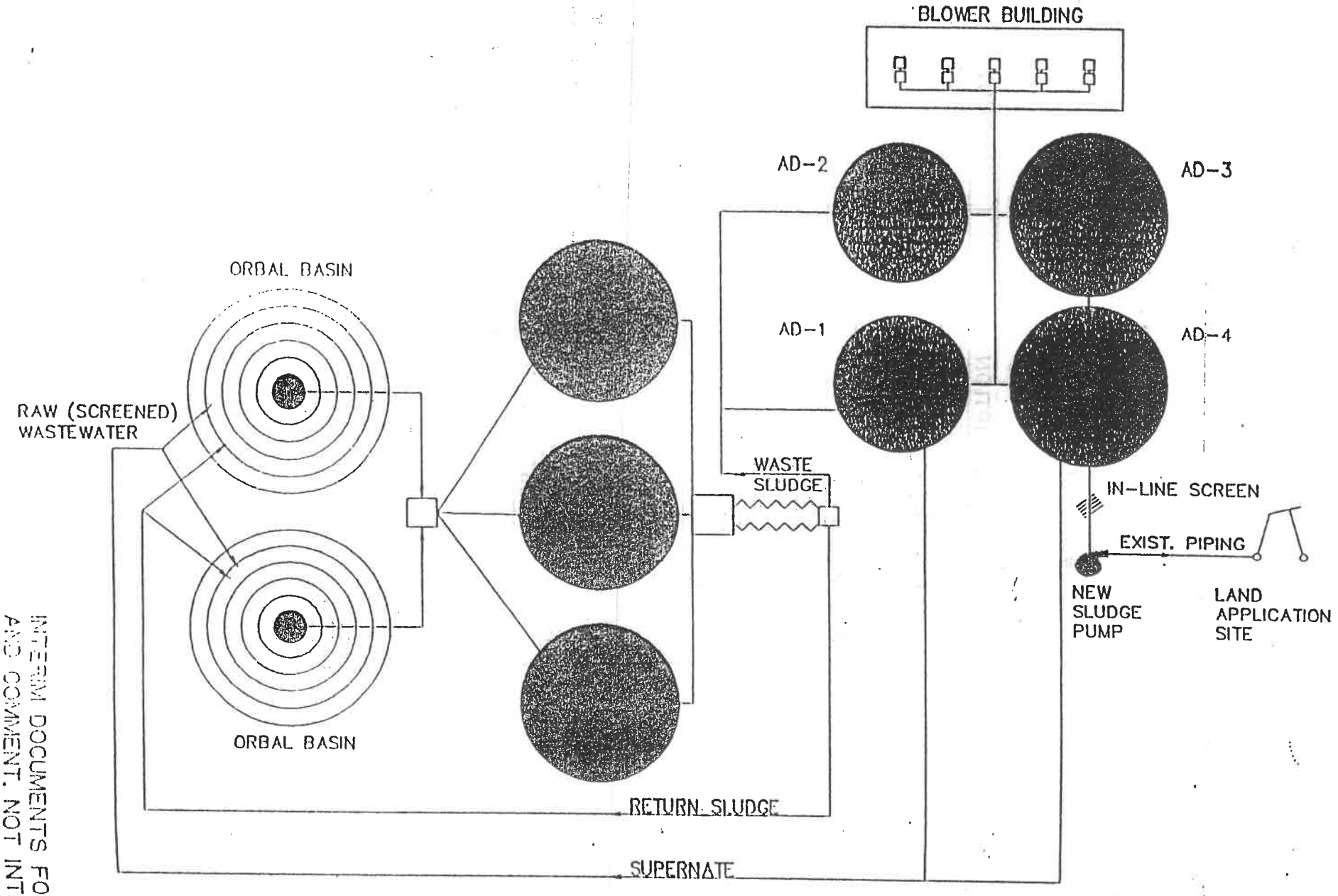
Summary Cost Estimate
for
Aeration/Filter Press/Landfill Disposal

CAPITAL COSTS

DESCRIPTION	AMOUNT
Process Equipment (Installed):	720,000
2 - 1 meter filter presses	
1 - polymer feed system	
1 - conveyor belt	
2 - centrifugal pumps	
2 - floating aerators	
2 - submersible mixers	
Belt Press and Pump Buildings	213,600
Electrical and Controls	112,000
Yard Piping	93,400
Sitework	30,000
Dump Truck	65,000
TOTAL CAPITAL COSTS	$1,234,000

ANNUAL OPERATION & MAINTENANCE

DESCRIPTION	AMOUNT/YEAR
Landfill Tipping Fee (4200 CY/year average)	29,456
Polymer	61,000
Power (0.07/KWH)	43,000
Labor (40 hrs/week)	25,000
Transportation to landfill (20 cy/day ultimate)	9,600
Equipment maintenance	12,300
TOTAL O&M	$180,356/YR



literature, further indicate that the digestion tanks should operate in series, rather then in parallel, since the introduction of fresh sludge into the partially digested mixture appears to reinoculate pathogens. A 1986 EPA paper "Inactivation of Enteric Pathogens During Aerobic Digestion of Wastewater Sludge" concluded

> "Bacterial densities in undigested sludge are reduced during aerobic treatment of sludge under field conditions. The addition of fresh, undigested sludge to aerobic digesters results in contamination of the digested sludge with undigested sludge and thus diminishes the effectiveness of the process for reducing bacterial densities".

Based upon this conclusion, the report recommended that "one modification of sludge treatment that should be considered is the aeration of sludge in batches, without addition of fresh, undigested sludge."

The existing orbal digestion channels would continue in their present operating mode. After thickening by decantation in the channels to around 0.75% solids, sludge would flow into each of the existing 53 foot diameter digestion tanks, operating in parallel, as existing. The sludge would be thickened (by decanting supernate) to 2.5%, and then would be routed from both of these units into a new 64 foot diameter reinforced concrete digester tank. From this third tank, it would flow in series to the fourth tank, also 64 foot diameter, in a "batch" process, i.e., the 4th tank would be monitored until the coliform and SOUR requirements were met. Its contents would then be distributed to the spray field, and it would be refilled from the third tank.

The four tanks would be aerated and mixed with coarse bubble diffusers. Five blowers would be provided, each 100 - 125 HP, with the capacity to meet aeration requirements with the largest single unit out of service. Air required for mixing will control the process, and 6519 scfm would be the design requirement (30

scfm/1000 CF) for all four tanks total.

The existing centrifugal pump from the digesters to the spray field would be protected by a screening device, and replaced with a heavier-duty pump. The spray field operation would not be altered.

This process has the advantage of a lesser initial cost than Alternate 3, and of being relatively similar in operation to the existing digestion process. Land application for beneficial use is preferred in the regulatory agencies' waste management hierarchy over landfilling. It has, however, several significant disadvantages. Power consumption is very high, estimated at $125,000/year over the average life. Cattle must be prevented from grazing for 30 days after each spray application, which increases labor costs at the sludge field. The outer orbal channel, currently used as a part of the digestion process, would continue to be committed to that function, whereas in Alternate 3 it could be converted to additional aeration if required in the future. Both Alternates 2 and 3 assume continued use of the existing spray field. It has been assumed that the current lease can be extended, at current terms - i.e., no cash payment to the landowner. If purchase of the site is required, it would result in a significant increase in the initial cost of this option.

Table II herein provides estimated capital cost and annual operation cost for this proposal.

ALTERNATE 3 - AUTOHEATED THERMOPHILIC AEROBIC DIGESTION (ATAD) FOLLOWED BY LAND APPLICATION

Aerobic digestion of sludge is highly temperature dependent, and two broad temperature ranges have been defined - "mesophilic" and "thermophilic". Mesophilic refers to digestion of a sludge at sludge temperature below 40° C (104° F). This is the temperature range for the extended period aerobic digestion process described in Alternate 2 of this report. "Thermophilic aerobic digestion" is

TABLE II
City of Paris
ALTERNATE 2

Summary Cost Estimate
for
Aerobic Digestion/Land Appliction (Class B)

CAPITAL COSTS

DESCRIPTION	AMOUNT
Process Equipment (Installed):	601,600
Aeration equipment - coarse bubble	
Spray field pump and screens	
Blowers (5 @ 100 HP each)	
Transfer pumps	
Blower Building	72,600
Concrete tanks - 2 @ 64' diameter	453,600
Electrical and controls	135,000
Yard piping and valves	190,000
Site work	30,000
TOTAL CONSTRUCTION	$1,482,800

LAND

DESCRIPTION	AMOUNT
Assume continuation of existing lease at no annual payment by City	$0

ANNUAL OPERATION & MAINTENANCE

DESCRIPTION	AMOUNT/YEAR
Power ($0.07/KWH)	125,000
Labor	25,000
Equipment Maintenance (1% capital cost)	14,800
TNRCC disposal fee ($0.75/dry ton)	650
Laboratory testing - SOUR & fecal (monthly)	2,000
TOTAL O&M	$167,450/YR

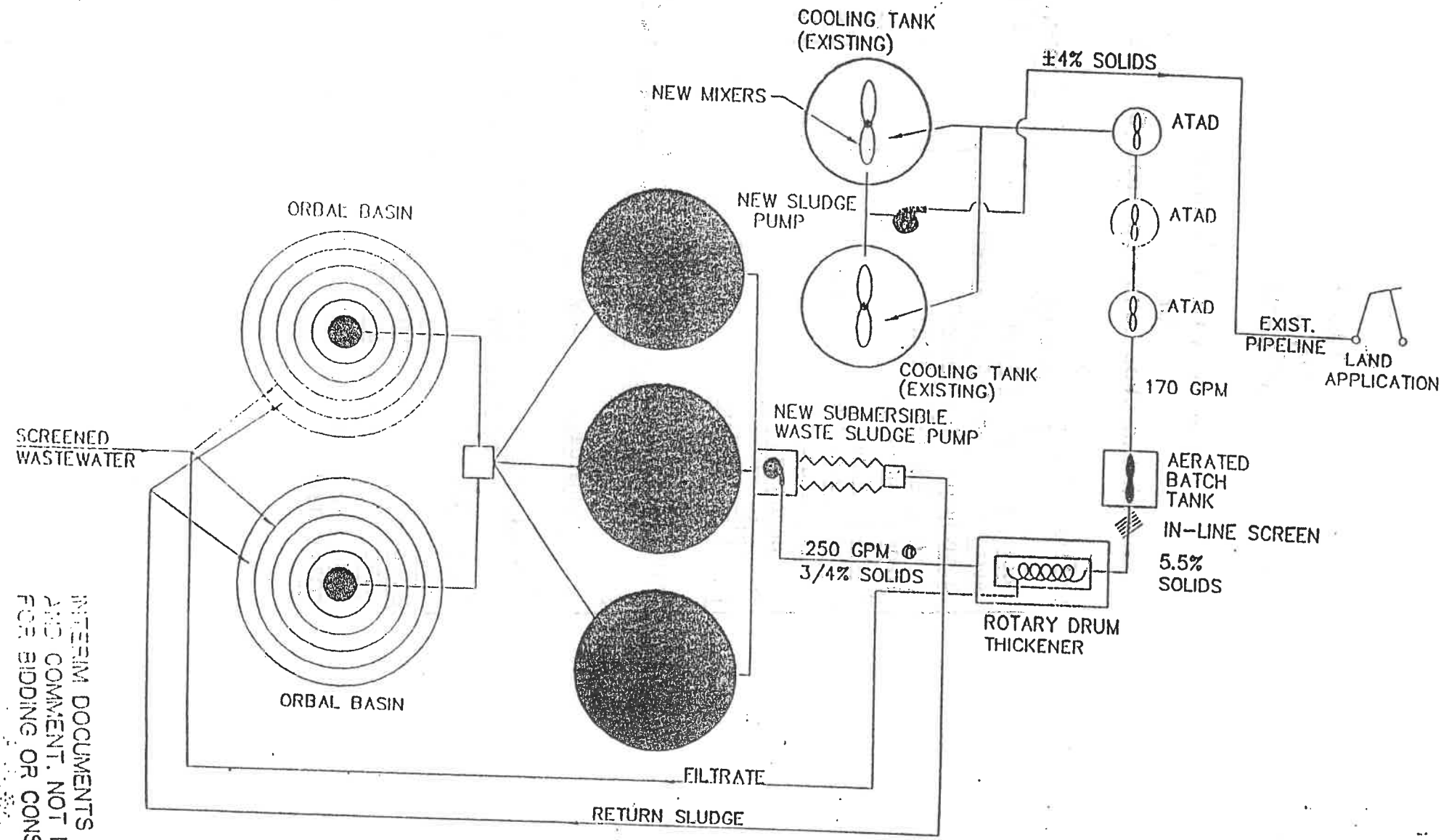


FIGURE 6
ALTERNATE 3—ATAD WITH LAND APPLICATION

sludge digestion in the presence of oxygen, at a sludge temperature greater than 104° F. At least one study has shown that thermophilic aerobic digestion for a 5 day hydraulic retention time can achieve the same volatile suspended solids reduction as achieved after 15 to 20 days in a conventional aerobic digester.

The thermophilic temperature range can be achieved with an external heat source, such as steam. However, in the microbial degradation process which occurs in aerobic digestion, energy is constantly released. Some of this energy is used to form new cellular material - much of it, though, is released as heat. In "autothermal" thermophilic aerobic digestion, this heat released by the digestion process is captured and serves as the heat source. An external heat source is required only infrequently and as a back-up system.

The ATAD process has been studied since the 1960's, and full-scale municipal facilities have been operating in Europe for over 15 years. The system has been studied in the U.S. since the late 1970's, and has been detailed in several EPA publications. Until recently, however, state and federal regulations have allowed less costly, and less effective, forms of sludge treatment. Currently, ATAD units are reported to be operating in North America in several Canadian locations, as well as in Wisconsin and . Several other facilities are nearing completion in the U.S., and at least one facility is under construction in Texas.

Because the ATAD process obtains its heat from the biological decay, it is advisable to have the highest possible VSS content in the ATAD influent sludge. The Paris plant currently has a fairly long detention time in the aeration process, and consequently, VSS are somewhat on the low side. Tests provided by City staff have generally shown around 57%. Since digestion prior to the ATAD unit would further reduce VSS, this implies that the outer channels of the orbal units could be converted to aeration uses at such time as

increased loadings require.

Waste activated sludge would be drawn from the clarifiers, using a submersible sludge pump to be installed in a concrete collector box near the base of the existing screw pumps. Withdrawal would be at a rate of around 250 gpm, at a solids content of about 0.5%. 41 MG/year of waste sludge would require about 8 hours per day of withdrawal, 7 days per week. The waste sludge pump would discharge to a rotary drum thickener, which would gravity thicken the sludge to 5% to 6% solids. The ATAD process is reported to require a minimum of 2.5% VSS in the incoming stream. 5% total solids, at 57% VSS, would provide 2.5% to 3% VSS.

Supernate from the rotary thickener would be returned to the head of the plant - the exact point of re-introduction is dependent upon piping considerations, but the biotower recirculation wet well appears likely. The thickened sludge would pass through a mechanical bar screen device, and into an aerated holding tank.

The holding tank would have a 2-day capacity, or about 20,000 gallons. Aeration would be by diffused air, at 30 scfm/1000 CF. About 15 HP would be required.

The daily operating cycle would be designed to lower the final ATAD tank in 30 minutes, and fill the first ATAD unit in 30 minutes, leaving 23.0 hours/day for mixing and aeration. Thus, the fill rate from the holding tank to the ATAD would be 340 gpm. At the beginning of the fill cycle, air is turned off in all 3 ATAD tanks, and approximately 10,000 gallons of sludge (1 days product) is pumped from the last ATAD to the sludge cooling tanks. The influent sludge pumps are started, and sludge is fed to the first tank, causing gravity displacement into the second and third tanks, respectively. After all 3 tanks are filled, aeration resumes.

Three ATAD tanks are proposed. Total hydraulic retention time in

the three should be at least 8 days to meet the vector attracti and pathogen reduction requirements of the 503/312 regulation Three tanks, each 26,347 gallons are proposed.

The digested sludge withdrawn from the third tank will have temperature of 60° C (140° F) or greater, and must be cooled t around 20° C (68° F) rapidly to avoid odor problems. This is don by mixing the freshly produced ATAD output into a significantly larger mass of cooled ATAD output. A minimum of 15 days holding is required for this purpose, and during this holding period the sludge is mixed for about 1 hour per day. The existing aerobic digestion tanks would be used for cooling tanks - each has a capacity of about 30 days. The tanks would be equipped with new submersible mixers - about 40 HP per tank for mixing would be required.

The existing sludge draw off procedure from the digestion tanks would be employed, and the Class A sludge would be pumped to the spray field. The existing pump utilized for this purpose would be replaced.

As in Alternate 2, this Alternate 3 assumes continued use of the existing spray field. It has been assumed that the current lease can be extended, at current terms, i.e., no cash payment to the landowner. If purchase of this or another site is required, it would result in a significant increase in the initial cost of this option.

Table III herein provides estimated capital costs and annual operation and maintenance costs for this proposal. Additional details are included in the appendix.

COMPARISON OF LIFE-CYCLE COSTS

Table IV herein presents a comparison of the life cycle costs - initial capital as well as annual O & M, for the three

TABLE III
City of Paris
ALTERNATE 3

Summary Cost Estimate
for
ATAD Process/Land Application (Class A)

CAPITAL COSTS

DESCRIPTION	AMOUNT
Process Equipment:	344,600
1 - Rotary drum thickener	
2 - Holding tank blowers	
Pump and screens to spray field	
2 - mixers for cooling tanks	
SUB-TOTAL ACCESSORY EQUIPMENT	$344,600
ATAD - Installed by manufacturer	1,555,000
Concrete holding tank	24,000
SUB-TOTAL EQUIPMENT	$1,579,000
Site work	30,000
Yard piping	291,700
Electrical	190,000
SUB-TOTAL	$511,700
TOTAL CONSTRUCTION	$2,435,300

ANNUAL OPERATING & MAINTENANCE

DESCRIPTION	AMOUNT/YEAR
Power	43,070
Equipment Maintenance	24,000
Labor	25,000
TNRCC fees	450
TOTAL O & M	$92,520/YR

TABLE IV
City of Paris

Comparison of Life Cycle Costs

LIFE CYCLE COST:

20 YEARS - 6%	AEROBIC DIGESTION	ATAD	AERATION/ FILTER PRESS/ LANDFILL
CAPITAL COST:			
Amortization: Crf = 0.08719	129,285	212,334	107,610
ANNUAL OPERATING & MAINTENANCE:			
10 years out @ 6% inflation = 1.689	282,823	156,266	304,621
TOTAL ANNUAL LIFE CYCLE COST	$412,108	$368,600	$412,231

alternatives. The comparison is based upon a 20-year life, 6% cost of funds, and 6% inflation over the project life.

As indicated in the table, Alternate 3 (ATAD) has the highest initial cost, but results in the lowest annual cost over the life of the project.

Krüg

III. ATAD Process Description

A. Introduction

The ATAD process was developed in the Federal Republic of Germany (FRG) in 1970, by Popel and coworkers on animal manure and sewage sludge. Much of the available data and process know-how is based upon Fuchs information. Fuchs has the most FRG installations and has by far the most process knowledge.

Autothermal Thermophilic Aerobic Digestion (ATAD) is an aerobic digestion process that operates within a thermophilic temperature range (40°C to 80°C) without the introduction of supplemental heat.

The typical ATAD system consists of two reactors that are covered and insulated. Sludge which has been thickened to a minimum of 4% solids is fed to the reactors on a batch basis. Each batch is 23 hours allowing one (1) hour total for the fill and discharge cycles. Sludge in the reactors is mixed and aerated throughout the 23 hour cycle. Temperatures in the first reactor normally exceed 45°C in six (6) days detention time and can reach up to 60°C in the second reactor depending on mixing and tank insulation. As the sludge aerobically digests, heat is released, creating an autothermal environment. The temperature of the reactors being greater than 40°C, inhibits nitrification and limits the oxygen demand to approximately 1.4 kg O_2 for every kg of V.S. destroyed. Volatile solids reduction normally ranges from and 30 to 50% and occurs in just 6 to 8 days HRT. The rate of digestion in the system doubles at 50°C as compared to 20°C. The number of viable organisms in the system start drying off and V.S. reduction stabilizes, as the temperature approaches 60° to 65°C, hence the process is self regulating.

B. Process Specifics

Feed solids must be prethickened to a minimum of 4% solids, 4 to 6% solids is desirable. Typically, primary and WAS is co-thickened in the primary clarifier. Gravity belt thickening or DAF thickening may also be used. Sludge less than 3% solids will have difficulty achieving thermophilic temperatures because of too much liquid mass. Sludge greater than 6% solids is difficult to mix and aerate. The feed solids must also contain a minimum of 55% volatile solids.

Influent screening should be used at the plant to eliminate plastics and stringy material from the sludge (1/2-inch bar spacing maximum). A good grit removal system is recommended to minimize abrasion on mixers and aerators.

Typically an ATAD system has a minimum of two (2) reactors operating in series. Both concrete and steel reactors have been used but steel is the most common due to heat stress concerns in concrete. The steel reactors are cylindrical, flat bottom and covered. Each reactor is insulated with four (4) inches of mineral wool

along the walls with 4" of high compression foam glass insulation for the top and bottom. The reactors are then clad with ribbed aluminum sheeting for protection from the elements.

Waste sludge is fed to the reactors on a batch basis. Batch feeding in one (1) hour per day periods is preferred to minimize short circuiting potential and to ensure that the incoming waste sludge is exposed to thermophilic reactor temperatures for a minimum of 23 hours/day without interruption. This ensures the highest degree of pathogen reduction. A typical reactor detention time is six (6) to eight (8) days (3 to 4 days per reactor). Sixty percent of the volatile solids destruction occurs in the first reactor. Reactor temperatures are monitored with temperature probes.

Waste sludge mixing and aeration is provided with aspirating aerators mounted tangentially through the reactor wall. A circulation aeration device mounted in the center of the reactor can be used in conjunction with the spiral aerators. The waste sludge aeration leads to the generation of surface scum which is controlled with foam cutters supported from the reactor roof. The foam cutters do not eliminate the foam, but instead keep it at a manageable level to allow it's beneficial use.

Off gas from the process can typically have a slight musty odor and should be either water scrubbed, passed through a biofilter, or diluted with ambient air.

Sludge from the second stage reactor must be cooled down prior to dewatering. Typically this is done in gravity thickeners, holding tanks or via heat exchangers. Fifteen (15) day minimum post-digestion holding is desirable to bring the temperature to 20° C. Mixing should be done in the holding tank for one hour each day.

C. Land Disposal

Through the use of a Krüger/Fuchs ATAD system, "Exceptional Quality" sewage sludge can be land applied on any type of site. There are no human or animal contact restrictions, time limits for land use after application or crop specific limitations associated with land disposal of Class A bio-solids from ATAD systems.

The E.P.A. requires periodic sampling to ensure that land applied bio-solids meet all the criteria set forth in 40 CFR-Part 503 regulation. Generally this proof is recorded on a daily basis with ATAD waste. Normal system temperature recording, V.S. testing and metals testing will provide the necessary data required as proof of regulation conformance. This virtually eliminates any unusual sampling methods as may be associated with conventionally digested or lime stabilized bio-solids.

IV. Design Basis

The Krüger/Fuchs design is based on over 40 full scale installations and numerous pilot s
The design information presented in this proposal represents a preliminary design develo
Krüger and Fuchs specifically for Paris, TX Facility.

Design Data

Plant Influent Flow	7.25 MGD (Design)
Sludge	70% Domestic
Waste sludge flow rate	9,590 Gal/Day
Dry solids content	5.5%
Volatile solids content	57% VS/DS Ratio
F/M Ratio	0.05 Assumed
BTU/Gal. of supplemental heat	Autothermal

Reactor Design

Number of trains	1
Number of reactors/train	3
Size of reactors each train	Reactor I, II & III
Diameter	20.8'
Total height	13.4'
Filling level	10.4'
Working volume	26,347 Gal.
Total system retention time	8.25 Days @ Design

Mechanical Equipment

	Reactor I, II & III	Total KW/Train
Spiral aerator type	WBL-V	
Number of spiral aerators/reactor	2	
kW/Spiral	5.0	30
Circulation aerator type	UBL-III	
Number of circulation aerators/reactor	1	
kW/Circulation	3.0	9
Foam controller type	SSC/I	
Number of foam controllers/reactor	4	
kW/Foam Controller	1.0	12

***Power Consumption** **1,173 kwh/day**

*ATAD units operate 23 hrs/day. The daily power consumption does not include sludge pump
transferring sludge to land application vehicles.

V. Scope of Supply

A. General

I. Krüger, Inc.'s scope of supply shall include process design of the ATAD system, aeration/mixing equipment, all reactor vessels, valves, controls and instrumentation to facilitate a complete system. I.Krüger is flexible in the approach to this project and would entertain any suggestions regarding additions or deletions to our scope of supply.

B. I. Krüger, Inc. Scope of Supply

1. Process and Design Engineering - I. Krüger shall provide engineering and design support for the ATAD system as follows:

   - Process design of Fuchs Process
   - General reactor schematic review
   - Technical instructions for ATAD system start-up, operation and maintenance

2. Field Service - I. Krüger shall perform a variety of field services necessary to start-up, test and operate the ATAD system. The field services included in this proposal shall be as follows:

   - 1 day final equipment installation inspection, by Fuchs
   - 1 day start-up assistance, by Fuchs
   - 1 day operator training, by Fuchs
   - 1 trip to the jobsite by Fuchs personnel
   - 5 days in 1 trip for start-up assistance by I. Krüger personnel

3. Equipment Supply - I. Krüger shall furnish the following equipment:

   - 6 spiral aerators, installed
   - 3 circulation aerators, installed
   - 12 foam controllers, installed
   - 1 PLC based control system including instrumentation
   - 3 reactor vessel system, installed
   - 1 temperature control system
   - 1 each ATAD System Discharge Pump and Feed Pump
   - Transfer pump (for 3 reactor systems only)
   - Interconnecting piping, installed
   - Reactor vessel blasting, coal tar coating, insulation and aluminum jacket
   - ATAD System valves, manual and automatic, installed
   - Labor, materials and installation required for reactor vessels; fabrication, erection and hydrostatic testing supervision
   - Structural walkway between reactors and under spiral aerators not accessible from center platform, installed

C. Optional Equipment

- I. Krüger Rotary Drum Type Sludge Thickener
- I. Krüger Odor Control System
- I. Krüger/Landia Mixers for Sludge Holding Tanks
- I. Krüger Belt Filter Press

These items can be provided by I. Krüger if they are not currently available at the plant in question, and are required for proper ATAD system functioning or sludge disposal.

D. Contractor Scope of Supply

- Influent screen (10-12mm maximum opening)
- Pre-ATAD storage tank (2 days capacity)
- Treated sludge storage tank (25 days capacity)
- Utilities - MCC
- Labor and material for installation of control panel, field wiring, pumps and all associated ancillary equipment
- Reactor vessel foundations
- Water supply and removal for hydrostatic reactor vessel testing

VI. Aeration Equipment Description, Operation, Design and Function

A. Description

The spiral aerator, such as used in ATAD installations, consists essentially of an air-cooled motor, which is integrated with a hollow shaft complete with spiral propeller. The spiral propeller is immersed at an incline into the sludge to be aerated.

B. Operation

When operating, the spiral propeller generates a flow angular to the bottom of the reactor. Simultaneously, in accordance with the "water jet pump principle," the spiral aerator sucks in air through the hollow shaft, this suction produces small bubbles, which are then drawn downward by the jet of liquid.

The very small bubbles, in conjunction with the intense turbulence, provide for a rapid oxygen transfer and a high degree of oxygen dissolution.

C. Design

The spiral aerators are sturdy and simple in design. The hollow shaft with its shank, the spiral propeller, the intermediate flange, as well as all fasteners are manufactured from AISI 304 stainless steel.

The drive units are special motors with hollow shafts. The units are high efficiency and equipped with permanently lubricated grooved ball bearings. The motor housings are manufactured from aluminum or a high quality cast-iron.

The aerator shafting is manufactured to allow for easy insertion or extraction. The aerator shaft is inserted into the hollow motor shaft. This allows for accurate and precise shaft guidance.

The aerator shaft is manufactured from extruded seamless AISI 304 stainless steel tube, and is dynamically balanced together with the coupling and the spiral propeller.

The immersion section does not contain any bearings or seals, which eliminates any maintenance work and virtually eliminates wear.

D. Function

The spiral aerators provide the ATAD system with the necessary supply of oxygen and the thorough mixing of the sludge. The spiral aerators also accelerate a rotation of the entire content of the reactor around the vertical axis. They are arranged tangentially on a stand pipe which, in turn, is welded at an angle to the reactor casing. The aerator driving facility and the motor end of the shaft, with the air entry ports, are exposed to the atmosphere. The hollow shaft with the spiral propeller leads through the stand pipe and the reactor wall into the sludge.

E. General

The ATAD process has many benefits that include high disinfection capability, minimum area requirements, a high sludge treatment rate and a high V.S. reduction rate which means reduced disposal costs. This technology is easy to operate, does not require full time staff and is a cost effective solution to aerobic digestion consistent with the new U.S. regulations on sludge disposal.

F. Temperature Control System

The closed loop glycol system will include a small recirculation pump that will be manually controlled. The pump is used to pump the glycol solution through the reactor circulation channels. These channels are welded on the inside wall of the appropriate reactors. The Glycol is pumped through the channels in Reactor III. The Glycol removes the heat from Reactor III and transfers it to Reactor I. This process helps heat Reactor I and speed the cooling in Reactor III.

APPENDIX B
REFERENCES

"Control of Pathogens in Municipal Wastewater Sludge", E September, 1989.

"Autoheated Thermophilic Aerobic Digestion", Water Environment Technology, October, 1991.

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"Microbiological Stabilization of Sludge by Aerobic Digestion a Storage", ASCE Journal of Environmental Engineering, May/Jun 1993.

Sludge Handling and Conditioning, U.S. EPA, February, 1978.

Standards for the Use and Disposal of Sewage Sludge, 40 CFR Par 503, Final Rule, U.S. EPA, 1993.

Use and Disposal of Municipal Wastewater Sludge, U.S. EPA September, 1984.

Sludge Disinfection: A Review of the Literature, WPCF, 1984.

"Municipal Solid Waste Plan for Texas", executive summary, October 1994.

Krüge

AUG29 1996

ATAD PROPOSAL
For
Paris, TX

ENGINEER:

Hayter Engineering

Proposal No. 439401

Krüger, Inc.
401 Harrison Oaks Blvd.
Suite 100
Cary, NC 27513
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8/22/96

James F. Ungerer
Product Manager

Table of Contents

I. Prologue

Krüger, Inc. is pleased to offer Paris, TX a proven solution to meet the U.S. federal requirements regulating the use or disposal of sewage sludge. These standards, promulgated in the EPA regulation 40 CFR Part 503, in conjunction with 40 CFR Parts 122, 123, and 501, defining permitting requirements, comprise the regulatory framework of the national sewage sludge program.

Autothermal thermophilic aerobic digestion or ATAD has been studied since the 1960s and significantly developed since the mid-1970s. Currently, there are over 45 full-scale operating facilities in Europe and North America. The Fuchs system now offered through Krüger has a proven track record and has been responsible for the sale of over 90 percent of all systems operating.

The following proposal is offered to Paris, TX utilizing all the practical, as well as technical, experience of Fuchs Gas.

II. Introduction to Krüger

Krüger is an environmental technology company. The Krüger Group based in Denmark operates worldwide within the fields of energy conservation, water supply, wastewater treatment, solid waste management, and rural development.

The Krüger Group employs about 1,100 people; approximately half of these people are engineers and scientists with vast experience in their related fields.

Krüger has subsidiaries and offices throughout the world, e.g. Belgium, France, Greece, Ireland, Germany, Cameroon, Burkina Faso, Guinea, Niger, Tanzania, Hong Kong, Indonesia, China, the Philippines, Sri Lanka, and the United States.

Krüger, Inc. (USA) located in Cary, North Carolina operates as an equipment supplier based on Krüger's worldwide patented processes for biological treatment of wastewater. Krügers process know-how was acquired through years of extensive research and development, which is a continuous effort. Krüger's R&D division currently employs more than 50 engineers and scientists and includes two fully-equipped research and biotechnology laboratories.

Krüger acquired the wastewater business of Air Products & Chemicals, Inc., including the patents for the A/O, A^2/O and OASES processes, in June 1991. This coincided with Krüger's acquisition of the worldwide exclusive license right to the OWASA process (optimization of biological phosphorous removal through the fermentation technology). Krüger is now capable of offering the equipment and the process know-how for both secondary and advanced wastewater treatment.

III. ATAD Process Description

A. Introduction

The ATAD process was developed in the Federal Republic of Germany (FRG) in 1970 by Popel and his colleagues working on animal manure and sewage sludge. Much of the available data and process know-how are based upon Fuchs research and design. Fuchs has the most FRG installations and has by far the most process knowledge.

Autothermal Thermophilic Aerobic Digestion (ATAD) is an aerobic digestion process that operates within a thermophilic temperature range (40EC to 80EC) without the introduction of supplemental heat.

The typical ATAD system consists of two reactors that are covered and insulated. Sludge which has been thickened to a minimum of 4-percent solids is fed to the reactors on a batch basis. Each batch is 23 hours allowing 1 hour total for the fill and discharge cycles. Sludge in the reactors is mixed and aerated throughout the 23-hour cycle. Temperatures in the first reactor normally exceed 45EC in 6 days detention time and can reach up to 60EC in the second reactor, depending on mixing and tank insulation. As the sludge aerobically digests, heat is released, creating an autothermal environment. The temperature of the reactors being greater than 40EC inhibits nitrification and limits the oxygen demand to approximately 1.4 kg O_2 for every kg of V.S. destroyed. Volatile solids reduction normally ranges from 30 to 50 percent and occurs in just 6 to 8 days HRT. The rate of digestion in the system doubles at 50EC as compared to 20EC. The number of viable organisms in the system start drying off and V.S. reduction stabilizes as the temperature approaches 60E to 65EC; hence, the process is self-regulating.

B. Process Specifics

Feed solids must be prethickened to a minimum of 4-percent solids; 4- to 6-percent solids is desirable. Typically, primary and WAS is co-thickened in the primary clarifier. Gravity belt thickening or DAF thickening may also be used. Sludge less than 3-percent solids will have difficulty achieving thermophilic temperatures because of too much liquid mass. Sludge greater than 6-percent solids is difficult to mix and aerate. The feed solids must also contain a minimum of 55-percent volatile solids.

Influent screening should be used at the plant to eliminate plastics and stringy material from the sludge (10-12 mm bar spacing maximum). A good grit removal system is recommended to minimize abrasion on mixers and aerators. If 100% primary sludge is to be processed through an ATAD system it is recommended that a macerator be put in-line before the ATAD feed.

Typically an ATAD system has a minimum of 2 reactors operating in series. Both concrete and steel reactors have been used, but steel is the most commonly used due to heat stress concerns in concrete. The steel reactors are cylindrical, flat-bottomed and covered. Each reactor is insulated with 4 inches of mineral wool along the walls with 4 inches of high compression foam glass insulation for the top and bottom. The reactors are then clad with ribbed aluminum sheeting for protection from the elements.

Waste sludge is fed to the reactors on a batch basis. Batch feeding in 1 hour/day periods is preferred to minimize short circuiting potential and to ensure that the incoming waste sludge is exposed to thermophilic reactor temperatures for a minimum of 23 hours/day without interruption. This ensures the highest degree of pathogen reduction. A typical reactor detention time is 6 to 8 days (3 to 4 days per reactor). Sixty percent of the volatile solids destruction occurs in the second reactor. Reactor temperatures are monitored with temperature probes.

Waste sludge mixing and aeration is provided with aspirating aerators mounted tangentially through the reactor wall. A circulation aeration device mounted in the center of the reactor can be used in conjunction with the spiral aerators. The waste sludge aeration leads to the generation of surface scum which is controlled with foam cutters supported from the reactor roof. The foam cutters do not eliminate the foam, but instead keep it at a manageable level to allow its beneficial use.

Off gas from the process can typically have a slight musty odor and should be either water scrubbed, passed through a biofilter, or diluted with ambient air.

Sludge from the second stage reactor must be cooled down prior to dewatering. Typically, this is done in gravity thickeners, holding tanks or via heat exchangers. Twenty-five day minimum post-digestion holding is desirable to bring the temperature to 20EC. Mixing should be done in the holding tank for 1 hour each day.

C. Land Disposal

Through the use of a Krüger/Fuchs ATAD system, "Exceptional Quality" sewage sludge can be land-applied on any type of site. There are no human or animal contact restrictions, time limits for land use after application or crop specific limitations associated with land disposal of Class A biosolids from ATAD systems.

The EPA requires periodic sampling to ensure that land applied biosolids meet all the criteria set forth in 40 CFR Part 503 regulation. Generally, this proof is recorded on a daily basis with ATAD waste. Normal system temperature recording, V.S. testing, and metals testing will provide the necessary data required as proof of regulation conformance. This virtually eliminates any unusual sampling methods as may be associated with conventionally digested or lime stabilized biosolids.

IV. Design Basis

The Krüger/Fuchs design is based on over 45 full-scale installations and numerous studies. The design information presented in this proposal represents a preliminary d developed by Krüger and Fuchs specifically for the Paris, TX Facility.

Design Data

Plant influent flow	5.5 MGD
Sludge	WAS
Waste sludge flow rate	12,050 gpd
Dry solids content	5%
Volatile solids content	3.50%

Reactor Design

Number of trains	1
Number of reactors/train	3
Size of reactors each train	Reactor I, II and III
Diameter	21.7 ft
Total height	13.8 ft
Filling level	10.8 ft
Working volume	29,878 gallons
Total system retention time	7.44 days

Mechanical Equipment

	Reactor I, II and III	Total KW/Train
Spiral aerator type	WBL-VII	
Number of spiral aerators/reactor	2	
kW/Spiral	7.0	42
Circulation aerator type	UBL-III	
Number of circulation aerators/reactor	1	
kW/Circulation	3.0	9
Foam controller type	SSc/1	
Number of foam controllers/reactor	4	
kW/Foam controller	1.0	12

*Power Consumption (Total of All Reactors) 1,449 kwh/day

*ATAD units operate 23 hrs/day. The daily power consumption does not include ATAD feed, transf discharge or sludge pumps for transferring sludge to land application vehicles.

V. Scope of Supply

A. General

Krüger, Inc.'s scope of supply shall include process design of the ATAD system, aeration/mixing equipment, all reactor vessels, valves, controls, and instrumentation to facilitate a complete system. Krüger is flexible in the approach to this project and would entertain any suggestions regarding additions or deletions to our scope of supply.

B. Krüger, Inc. Scope of Supply

1. **Process and Design Engineering** - Krüger shall provide engineering and design support for the ATAD system as follows:

   - Process design of Fuchs Process
   - General reactor schematic review
   - Technical instructions for ATAD system start-up, operation and maintenance

2. **Field Service** - Krüger shall perform a variety of field services necessary to start-up, test and operate the ATAD system. The field services included in this proposal shall be as follows:

   - 1 days final equipment installation inspection by Fuchs
   - 1 days start-up assistance by Fuchs
   - 1 days operator training by Fuchs
   - 1 trip to the job site by Fuchs personnel
   - 10 days in 2 trips for start-up assistance by Krüger personnel

3. **Equipment Supply** - Krüger shall furnish the following equipment:

   - 6 spiral aerators, installed
   - 3 circulation aerators, installed
   - 12 foam controllers, installed
   - 1 PLC-based control system, including instrumentation
   - 3 reactor vessel system, installed
   - 1 temperature control system
   - ATAD system discharge pump and feed pump, 2 each
   - ATAD system valves, manual and automatic, installed
   - Labor, materials, and installation required for reactor vessels; fabrication, erection, and hydrostatic testing supervision
   - Structural walkway between reactors, installed
   - Interconnecting piping, installed
   - Reactor vessel blasting, epoxy coating, insulation, and aluminum jacket
   - 2 Submersible mixers

C. Optional Equipment

Krüger rotary drum type sludge thickener
Krüger odor control system
Krüger/Landia mixers for sludge holding tanks
Krüger belt filter press

These items can be provided by Krüger if they are not currently available at the plant in question, and are required for proper ATAD system functioning or sludge disposal.

D. Contractor Scope of Supply

- Plant bar screen with a maximum 10-12 mm bar spacing
- Grit removal system
- Pre-ATAD sludge holding tank (2 days minimum capacity)
- Treated sludge storage tank (30 days capacity)
- Utilities - MCC
- Labor and material for installation of control panel, field wiring, pumps and all associated ancillary equipment
- Reactor vessel foundations
- Water supply and removal for hydrostatic reactor vessel testing
- Odor control system
- Process piping to and from ATAD system

VI. Aeration Equipment Description, Operation, Design, and Function

A. Description

The spiral aerator, such as used in ATAD installations, consists essentially of an air-cooled motor, which is integrated with a hollow shaft complete with spiral propeller. The spiral propeller is immersed at an incline into the sludge to be aerated.

B. Operation

When operating, the spiral propeller generates a flow angular to the bottom of the reactor. Simultaneously, in accordance with the "water jet pump principle," the spiral aerator sucks in air through the hollow shaft; this suction produces small bubbles, which are then drawn downward by the jet of liquid.

The very small bubbles, in conjunction with the intense turbulence, provide rapid oxygen transfer and a high degree of oxygen dissolution.

C. Design

The spiral aerators are sturdy and simple in design. The hollow shaft with its shank, the spiral propeller, the intermediate flange, as well as all fasteners, are manufactured from AISI 304 stainless steel.

The drive units are special motors with hollow shafts. The units are high efficiency and equipped with permanently lubricated grooved ball bearings. The motor housings are manufactured from aluminum or a high-quality cast-iron.

The aerator shafting is manufactured to allow for easy insertion or extraction. The aerator shaft is inserted into the hollow motor shaft. This allows for accurate and precise shaft guidance.

The aerator shaft is manufactured from extruded seamless AISI 304 stainless steel tube, and is dynamically balanced together with the coupling and the spiral propeller.

The immersion section does not contain any bearings or seals, which eliminates any maintenance work and virtually eliminates wear.

D. Function

The spiral aerators provide the ATAD system with the necessary supply of oxygen and the thorough mixing of the sludge. The spiral aerators also accelerate a rotation of the entire content of the reactor around the vertical axis. They are arranged tangentially on a stand pipe which, in turn, is welded at an angle to the reactor casing. The aerator driving facility and the motor end of the shaft, with the air entry ports, are exposed to the atmosphere. The hollow shaft with the spiral propeller leads through the stand pipe and the reactor wall into the sludge.

E. General

The ATAD process has many benefits that include high disinfection capability, minimum area requirements, a high sludge treatment rate, and a high V.S. reduction rate, which all spell reduced disposal costs. This technology is easy to operate, does not require full-time staff, and is a cost effective solution to aerobic digestion consistent with the new U.S. regulations on sludge disposal.

F. Temperature Control System

Generally speaking, the majority of ATAD systems will not require temperature control. When designing an ATAD system a thorough heat balance is generated to determine whether or not the system will be autothermal. Considering all the variables that effect the system, we can determine whether we will need heat supplement, transfer or removal. We then custom design the system required for the application in question.

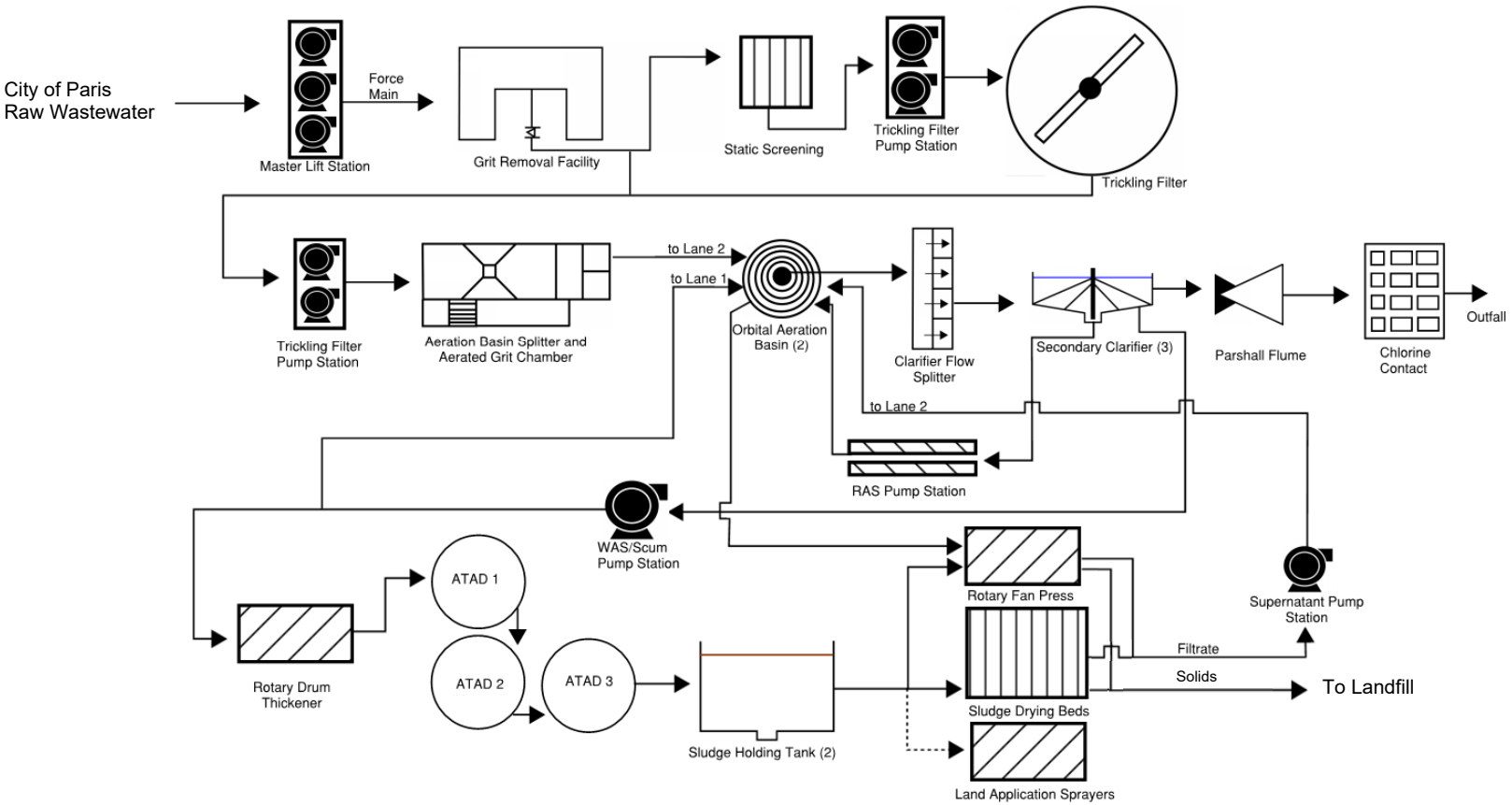

Figure 2.2: Paris WWTP Flow Diagram

Attachment E: City of Paris Wastewater Treatment Plant Process Description

Existing/Final Phase Treatment Process:
The City of Paris Wastewater Treatment Plant (WWTP) is currently permitted for a daily flow of 7.25 million gallons per day (MGD) and a peak 2-hour flow (P2HF) of 12,042 gallons per minutes (gpm). Flow enters the plant via one 38-in interceptor.

Master Lift Station
The Master Lift Station is located 3,200 feet south of the treatment plant near Pine Creek. The facility is a below ground wet-well/dry-well. The station is equipped with three variable speed pumps each rated at 2,775 gpm at 90 feet. Each pump is driven by a 100 hp, 3 phase, 460V motor.

Preliminary Treatment
Raw wastewater flow enters the plant and is directed through a Pista Grit Chamber for grit removal. The chamber is a Loveless Pista Grit model 12 Unit with a peak flow capacity of 12 MGD. Following the grit removal, the flow is directed into the Headworks screening building. The screening building contains 6 Hycor model HS 72 stainless steel static screens. Each screen has a width of 6 ft and slit openings of 0.060 inches. The design flow of each screen is 1,170 gpm for a total design flow of 10.11 MGD.

Secondary Treatment
Screened wastewater flows to the biotower (fixed film reactor). The biotower functions as a roughing filter similar to a trickling filter. The unit has a surface area of 5,025 square feet and a total volume of 74,867 cubic feet. The design flow of the biotower is 8,333 gpm (12 MGD). Flow from the biotower can be recirculated or directed to the orbital units.

The plant utilizes two five-channel orbital units with aeration discs which function as a racetrack-type extended aeration mode. Each channel is partitioned such that flow enters the outer channel and progresses inward to the 5th innermost channel.

Flow from the orbital units is split between three, 80-foot diameters circular clarifiers. The clarifiers are each equipped with an access bridge, stilling well, scum collector, and sludge rake. Two clarifiers have a side depth of 10.83 feet and the third has a side water depth of 13.50 feet. All three clarifiers have a bottom slope towards the center at a 1:12 ratio. The clarifiers have a surface area of 5,027 square feet, two have a total volume of 54,442 cubic feet (407,280 gallons), and the third has a total volume of 67,860 cubic feet (507,660 gallons). The peripheral weir of each clarifier has a total length of 249 feet.

Disinfection
Clarified wastewater leaving the primary clarifiers flows by gravity to the chlorination/dichlorination facility for disinfection. The facility has three separate parallel chambers. Two of the three chambers have mechanical sludge removal capabilities. The third chamber must be taken offline and sludge removed manually. Each chamber is 73’ 6” long by 16’ wide by 11’ deep. The total volume of each chamber

is 12,936 cubic feet (96,774 gallons). The total treatment volume is 290,322 gallons for all three combined chambers. The design peak 2-hour flow of the combined units is 17.32 MGD.

After sufficient disinfection contact time in the chlorination portion of each chamber, the effluent passes over a weir to the de-chlorination portion utilizing sulfur dioxide for chlorine removal. The facility has continuous monitoring of chlorine residual for both chlorinated and dechlorinated effluent and is recorded on strip charts. The combined flow of dechlorinated effluent from all chambers is then discharged to Hicks Creek.

Effluent Facilities

Effluent flow is monitored using a 24-inch Parshall flume with stilling well as the primary device and a Badger ultrasonic flow recorder. The ultrasonic sensor is located above the stilling well to avoid any turbulence in the flume.

Solids Management

Organic solids are stabilized by extended aeration, biotower, final clarification and activated sludge. Sludge is further stabilized by an Auto Thermophilic Aerobic Digestion (ATAD) system which produces a Class A sludge.

Activated sludge is returned from the clarifiers to the orbital channels by two Beloit-Passavant 42-inch diameter screw-type pumps. The design flow for each pump is 3,500 gpm. Sludge not recirculated to the orbitals is wasted by the WAS pumps to the rotary drum thickener before being sent to the Autothermal Aerobic Digestion (ATAD) system.

The ATAD facility is a Krueger three reactor system capable of producing a Class A sludge. Fresh sludge is aerated by mixers in the first two reactors to allow microbial activity to bring the sludge to a temperature of 55 degrees Celsius. Sludge is then batched to the third reactor where the 55 degrees temperature is maintained for 24 hours. All operational parameters are monitored by a computer and adjustments are made as needed to maintain the 55 degree Celsius temperature requirement. The stabilized sludge is then transferred to two cooling tanks to await delivery to a landfill. The sludge may also be placed in drying beds or two rectangular basins capable of holding 340,000 gallons each for temporary holding. A portable pump removes sludge from the cooling tanks to the sludge basins for storage.

Sludge from the storage basins can then be sent to the sludge drying beds, the rotary fan press, or to the land application sprayers. Solids from the sludge drying beds and the rotary fan press are sent to the landfill. The rotary fan press was installed in 2019 with one fan. The press is expandable up to two fans. The filtrate is recirculated to the Orbital basin.

The primary method of disposal is to the landfill. However, the Paris WWTP also maintains the permitted ability to land apply Class A sludge. The City does not currently have any existing agreements to continue land application. If new landowners will be added, the City will notify TCEQ about land application to a new landowner.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 7, 2022

Thomas M. Lyvers, Jr., P.E.
Garver, LLC
3010 Gaylord Pkwy.; Suite 190
Frisco, TX 75034

Re: City of Paris
Paris Phase 1 WWTP Improvements
Permit No. WQ0010479-002
WWPR Log No. 0422/027
CN600632269, RN101920767
Lamar County

Dear Mr. Lyvers:

Texas Commission on Environmental Quality (TCEQ) received the project summary transmittal letter dated March 31, 2022, and the subsequent submittal of additional project information.

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems.

The project is for improvements that are needed to rehabilitate or replace infrastructure of the City of Paris Wastewater Treatment Plant (WWTP). The City of Paris WWTP is regulated by TPDES Permit No. WQ0010479002, which allows an annual average flow of 7.25 MGD (2-hr peak flow of 12,042 gpm). The permitted effluent limitations are 10 mg/L of CBOD5, 15 mg/L of TSS, 2 mg/L of Ammonia Nitrogen, and 126 *E. coli* CFU or MPN per 100 mL.

The project proposes the following WWTP improvements:

- Construction of a new plant influent splitter box
- Construction of two (2) new clarifiers: each 80' diameter x 12' SWD
- Construction of a new primary sludge pump station
- Construction of two (2) new aeration basins, each consisting of an anaerobic zone followed by an aerobic zone. Sizes and volumes of anaerobic and aerobic zones are:
  - Two (2) anaerobic zones, each 30' x 40' x 18' SWD (total volume of 0.33 MG)
  - Two (2) aerobic zones, each 160' x 40' x 18' SWD (total volume of 1.7 MG) with fine bubble air diffusers
- Installation of five (5) new aeration blowers, each 1,530 scfm
- Construction of a new electrical building
- Construction of a new mixed liquor splitter box
- Rehabilitation of existing final clarifiers

- Construction of a new final clarifier: 80' diameter x 12' SWD (as a bid alternative)
- Construction of a new RAS/WAS pump station
- Construction of a new non-potable water pump station
- Rehabilitation of the existing sludge holding tank
- Construction of a new solids dewatering facility including the installation of one (1) belt filter press
- Construction of a new offloading facility
- Construction of a new recycle flow pump station
- Installation of a new 800 kW standby diesel generator.

The summary transmittal letter also contained a request for variance from 30 TAC §309.13(e)(1) rules which require that lagoon with zones of anaerobic activity (e.g., facultative lagoons, unaerated equalization basins, etc.) may not be located closer than 500 feet to the nearest property line. All other wastewater treatment plant units may not be closer than 150 feet to the nearest property line. The engineer indicates the proposed design utilizes an odor buffer for a majority except for the southern property boundary. Due to the location and layout of the existing site, the presence of mature foliage at the WWTP boundaries and the technologies being utilized at the WWTP, it is not anticipated that any further steps will need to be taken to mitigate odor. Therefore, the City requests a variance for odor control pursuant to 30 TAC §309.13(f) rules. The engineer also indicates the Paris WWTP is located in a rural area and is bordered on all sides by one parcel of land with no residential or commercial structures within the buffer zone. The adjacent property has not changed ownership since 1997.

The Paris WWTP parcel does not currently contain the required 150-ft buffer area around all treatment units within the WWTP property boundary; however, no structures are located within the 150-ft buffer area. The engineer indicates the City has offered to purchase the adjacent buffer area from the property owner, but the property owners have so far declined. The engineer also indicates that the City has also not been able to obtain a formal deed restriction for this property. The engineer states that, as part of the proposed improvements, older technologies that are prone to producing odor (such as orbital aeration basins) will be replaced with newer technologies that reduce nuisance odors (such as aeration basins). The engineer indicates it is anticipated the WWTP will produce fewer odors as a result of the current improvements. In addition, the engineer indicates there is landscape screening with mature trees along the boundary lines where the odor buffer setback is no met. The engineer states this foliage is expected to inhibit the transmission of odorous compounds. In addition, the engineer indicates the wind is most often from the south, thus negating the likelihood of odor transmission to the west or south. Upon review, TCEQ is granting conditional approval of this variance provided the measures cited by the engineer are effective in reducing the transmission of odors. If these are found ineffective in reducing the transmission of odors or in preventing an odor complaint, additional odor control measures may be required in the future.

Our review indicated that the design documents provided are in general compliance with the applicable minimum standards as set forth in Chapter 217, Design Criteria for Domestic Wastewater Systems. On that basis, this project is conditionally approved for construction. The condition is that all work be completed to the requirements of Chapter 217.

You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.6(d). Additionally, the engineering report must include all constants, graphs, equations, and calculations needed to show substantial compliance with Chapter 217. The items which shall be included in the summary transmittal letter are addressed in §217.6(d)(1)-(9).

Within 60 days of the completion of construction, an appointed engineer shall notify both the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date of completion. The engineer shall also provide written certification that all construction, materials, and equipment were substantially in accordance with the approved project, the rules of the TCEQ, and any change orders filed with the TCEQ. All notifications, certifications, and change orders must include the signed and dated seal of a Professional Engineer licensed in the State of Texas.

Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions, or if we can be of any further assistance, please call me at (512) 239-4924.

Sincerely,

Baltazar Lucero-Ramirez, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

cc: TCEQ, Region 5 Office

The CITY OF PARIS

January 9, 2024

Texas Commission on Environmental Quality
Water Quality Division (MC 148)
Attn: Ms. Colleen Cook
Pretreatment Team Leader
P.O. Box 13087
Austin, TX 78711-3087

RE: Pretreatment Program Status Report for 2023
TPDES Permit No. 10479-002 (EPA I.D. No. TX0027910)

Dear Ms. Cook:

Attached is the Pretreatment Program Status Report for calendar year 2023 in accordance with the requirements of the City of Paris TPDES permit. I am pleased to report no users were in significant noncompliancc during this period.

I emailcd TCEQ on December 6, 18 & 21, 2023 to makc sure I had the current and correct TexTox report. I received an email from Bridget Malone on December 28, 2023 that the last TexTox report from December 16, 2020 is still the correct TexTox.

If you have any questions, please contact me at P.O. Box 9037, Paris, TX 75461-9037 or telephone (903) 784-2464 or kfortner@paristexas.gov. Thank you.

Sincerely,

Kenda Fortner

Kenda Fortner
Environmental Services Supervisor

Attachments

cc: Doug Belzer, TCEQ Region V Tyler Office
Enforcement Division (224), Compliance Monitoring Team

The CITY OF PARIS

CERTIFICATION STATEMENT

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 is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Doug Harris — **Assistant City Manager**

Signature

01/09/2024
Date

BEFORE ME, the undersigned authority, on this day personally appeared **Doug Harris**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 9TH day of January 2024.

DENENE JOHNSON
Notary Public, State of Texas
Comm. Expires 03-16-2027
Notary ID 126036216

Notary Public, State of Texas

P.O. BOX 9037 • PARIS, TEXAS 75461-9037 • (903) 785-7511 • FAX (903) 785-8519

PRETREATMENT PERFORMANCE SUMMARY (PPS)

NOTE: ALL QUESTIONS REFER TO THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) INDUSTRIAL PRETREATMENT PROGRAM AS APPROVED BY THE EPA/TCEQ. THE PERMITTEE SHOULD NOT ANSWER THE QUESTIONS BASED ON CHANGES MADE TO THE APPROVED PROGRAM WITHOUT TCEQ AUTHORIZATION.

I. General Information

Control Authority Name **City Of Paris**

Address **P.O. Box 9037**

City **Paris** State/ZIP **Tx 75461-9037**

Pretreatment Contact Person **Kenda Fortner, Environmental Services Supervisor**
(Position)

Contact Telephone **(903)784-2464**
(Area Code)

TPDES/NPDES Permit Nos. **TX 10479-002 / EPA I.D. No. TX0027910**

Reporting Period **January 2023** To **December 2023**
(Beginning month and year) (Ending month and year)

Total Number of Categorical IUs **0**
Total Number of Significant Noncategorical IUs **3**

II. Significant Industrial User Compliance

	SIGNIFICANT INDUSTRIAL USERS Categorical	Noncategorical
1)No. of SIUs Submitting BMRs/Total No. Required	**N/A**	N/A*
2)No. of SIUs Submitting 90-Day Compliance Reports/No. Required	**N/A**	N/A*
3)No. of SIUs Submitting Semiannual Reports/ Total No. Required	**N/A**	**2/2*** City performs all sampling for hospital. Does not have sampling/monitoring facilities.
4)No. of SIUs in SNC with Compliance Schedule/ Total No. Required to Meet Schedule	**N/A**	**0/0**
5)No. of SIUs in Significant Noncompliance/ Total No. of SIUs	**N/A**	**0/3**
6)Ratio of Significant Noncompliance for all SIUs (categorical and noncategorical)	**0 / 3**	

III. Compliance Monitoring Program

	SIGNIFICANT INDUSTRIAL USERS Categorical	Noncategorical
1) No. of Control Documents Issued/Total No. Required	0	0/0
2) No. of Nonsampling Inspections Conducted	0	3
3) No. of Sampling Visits Conducted	0	6
4) No. of Facilities Inspected (nonsampling)	0	3
5) No. of Facilities Sampled	0	3

IV. Enforcement Actions

	SIGNIFICANT INDUSTRIAL USERS Categorical	Noncategorical
1 No. of Compliance Schedules Issued/No. Schedules Required	0	0
2) No. of Notices of Violations Issued to SIUs	0	0
3) No. of Administrative Orders Issued to SIUs	0	0
4) No. of Civil Actions	0	0
5) No. of Criminal Actions	0	0
6) No. of Significant Violators (attach newspaper publication)	0	0
7) Amount of Penalties Collected* (total dollars/No. of IUs assessed)	0	0
8) Other Actions (sewer bans, etc.)	0	0

**NOTE: Do not include surcharges*

The following certification must be signed in order for this form to be considered complete:

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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*See offical signed & notarized certification statement on previous page.

Authorized Representative Date

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/year: January, 2023 to December, 2023

TPDES Permit No.: WQ10479-002 Permittee: City of Paris Treatment Plant: City of Paris WWTP

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS[1] LIST

Industrial User Name	SIC or NAICS Code	CIU[2]	CONTROL MECHANISM				New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Complaint, NC = Non-complaint, SNC= Significant Non-compliance)						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				REPORTS				Certifications	Effluent Limits	Narrative Standards
										BMR	90-Day	Semi-Annual	Self-Monitoring[8]	NSCIU		
Campbell Soup	2032	Non-Categ. SIU	Y	IND	01/01/2021 New Permit Issued	TBLLs Only	N Expire 12/31/2024	1	2	N/A	N/A	C	C	N/A	C	
Kimberly-Clark	2676	Non-Categ. SIU	Y	IND	01/01/2021 New Permit Issued	TBLLs Only	N Expire 12/31/2024	1	2	N/A	N/A	C	C	N/A	C	
Paris Regional Medical Center-North	8062	Non-Categ. SIU	Y	IND	01/01/2021 New Permit Issued	TBLLs Only	N Expire 12/31/2024	1	2	N/A	N/A	C	C*	N/A	C	*City performs all sampling for Semi-Annual Reports. Hospital has no monitoring facilities.

1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.

4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control

mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TPDES Pretreatment Program Annual Report Form
for Industrial User Inventory Modifications

Reporting month/year: January, 2023 to December, 2023

TPDES Permit No.: WQ10479-002 Permittee: City of Paris Treatment Plant: City of Paris WWTP

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

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

TPDES Pretreatment Program Annual Report Form
for Enforcement Actions Taken

Reporting month/year: January, 2023 to December, 2023

TPDES Permit No.: WQ10479-002 Permittee: City of Paris Treatment Plant: City of Paris WWTP

Overall SNC __0_%
SNC [10] **based on: Effluent Violations**__0__% **Reporting Violations**_0___% **Narrative Standard Violations**_0__%

Noncompliant Industrial Users - Enforcement Actions Taken

Industrial User Name	Nature of Violation [11]				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	No users in SNC in 2023

10 # %
__ __ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)
__ __ Reporting Requirements [WENDB-PSNC]
__ __ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

Reporting month/year: January, 2023 to December, 2023

TPDES Permit No.: 10479-002 Permittee: City of Paris Treatment Plant: City of Paris WWTP

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	**MAHL, if Applicable in lb./day**	**Influent Measured in Φg/L (Actual Concentration or < MAL)**				**Average Influent % of the MAHL[2]**	**Daily Average Effluent Limit (Φg/L)[3]**	**Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]**			
		02/06/23	**05/23/23**	**07/18/23**	**10/24/23**			**02/06/23**	**05/23/23**	**07/18/23**	**10/24/23**
METALS, CYANIDE AND PHENOLS											
Antimony, Total		<5.0	<5.0	<5.0	<5.0			<5.0	<5.0	<5.0	<5.0
Arsenic, Total	9.53	1.16	2.39	2.27	1.89	0.58	50	0.846	1.43	2.81	1.35
Beryllium, Total		<0.50	0.607	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50
Cadmium, Total	6.10	<1.0	<1.0	<1.0	<1.0	0.23	1.75	<1.0	<1.0	<1.0	<1.0
Chromium, Total	153.24	<3.0	<3.0	<3.0	<3.0	0.03	500	<3.0	<3.0	<3.0	<3.0
Chromium (Hex)			<3.0				13.2		<3.0		
Chromium (Tri)[5]			<3.0				774		<3.0		
Copper, Total	173.97	12.2	24.6	12.0	35.2	0.35	64.7	3.55	2.61	2.76	2.51
Lead, Total	51.50	1.26	3.93	1.16	2.59	0.12	36.4	<0.50	<0.50	<0.50	<0.50
Mercury, Total	0.10	0.00624	0.0108	0.00598	0.00584	0.21	0.0221	0.0015	0.00116	0.00068	0.00067
Nickel, Total	302.0	13.9	16.1	10.8	18.0	0.14	297	8.03	9.52	6.59	7.48
Selenium, Total	7.54	<5.0	<5.0	<5.0	<5.0	0.95	6.51	<5.0	<5.0	<5.0	<5.0

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L) [3]	Effluent Measured in Φg/L (Actual Concentration or < MAL) [4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Molybdenum, Total	15.69	<1.0	1.33	<1.0	<1.0	0.13	140	<1.0	1.06	1.05	<1.0
Silver, Total	165.15	<0.50	<0.50	<0.50	<0.50	0.00	23.9	<0.50	<0.50	<0.50	<0.50
Thallium, Total		<0.50	<0.50	<0.50	<0.50			<0.50	<0.50	<0.50	<0.50
Zinc, Total	410.98	73.6	132	61	137	0.70	641	35	28.9	14.7	15
Cyanide, Available [6]	44.45	<10.0	<10.0		<10.0	0.32	13.9	<10.0	<10.0		<10.0
Cyanide, Total	44.45	<10.0	<10.0	<10.0	<10.0	0.32	13.9	<10.0	<10.0	<10.0	<10.0
Phenols, Total		<10.0	<10.0	<10.0	20.6			<10.0	<10.0	<10.0	<10.0
Acrolein			<10.0						<10.0		
Acrylonitrile			<10.0						<10.0		
Benzene			<5.0				1056		<5.0		
Bromoform			<10.0				1927		<10.0		
Carbon Tetrachloride			<2.0				83.6		<2.0		
Chlorobenzene			<10.0				4975		<10.0		
Chlorodibromomethane			<5.0				332		<5.0		
Chloroethane			<5.0						<5.0		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L) [3]	Effluent Measured in Φg/L (Actual Concentration or < MAL) [4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
2-Chloroethylvinyl Ether			<10.0						<10.0		
Chloroform			<5.0				13993		27.4		
Dichlorobromomethane			<2.0				499		7.77		
1,1-Dichloroethane			<5.0						<5.0		
1,2-Dichloroethane			<5.0				661		<5.0		
1,1-Dichloroethylene			<5.0				100199		<5.0		
1,2-Dichloropropane			<2.0						<2.0		
1,3-Dichloropropylene			<10.0						<10.0		
Ethyl benzene			<2.0						<2.0		
Methyl Bromide			<5.0						<5.0		
Methyl Chloride			<5.0						<5.0		
Methylene Chloride			<20.0						<20.0		
1,1,2,2-Tetra-chloroethane			<5.0						<5.0		
Tetrachloroethylene			<10.0				509		<10.0		
Toluene			12.1						<5.0		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L) [3]	Effluent Measured in Φg/L (Actual Concentration or < MAL) [4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
1,2-Trans-Dichloroethylene			<10.0						<10.0		
1,1,1-Trichloroethane			<5.0				1425981		<5.0		
1,1,2-Trichloroethane			<5.0						<5.0		
Trichloroethylene			<5.0				130		<5.0		
Vinyl Chloride			<5.0				29.9		<5.0		
2-Chlorophenol			<2.50						<2.50		
2,4-Dichlorophenol			<2.50						<2.50		
2,4-Dimethylphenol			<5.00						<5.00		
4,6-Dinitro-o-Cresol			<5.00						<5.00		
2,4-Dinitrophenol			<5.00						<5.00		
2-Nitrophenol			<2.50						<2.50		
4-Nitrophenol			<5.00						<5.00		
P-Chloro-m-Cresol			<2.50						<2.50		
Pentachlorophenol			<5.00				0.527		<5.00		
2,4,6-Trichlorophenol			<2.50						<2.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Acenaphthene			<2.50						<2.50		
Acenaphthylene			<2.50						<2.50		
Anthracene			<2.50						<2.50		
Benzidine			<10.0				0.194		<10.0		
Benzo(a)Anthracene			<2.50				0.0454		<2.50		
Benzo(a)Pyrene			<2.50				0.00454		<2.50		
3,4-Benzofluoranthene			<2.50						<2.50		
Benzo(ghi)Perylene			<2.50						<2.50		
Benzo(k)Fluoranthene			<2.50						<2.50		
Bis(2-Chloroethoxy)Methane			<2.50						<2.50		
Bis(2-Chloroethyl)Ether			<2.50						<2.50		
Bis(2-Chloroisopropyl)Ether			<2.50						<2.50		
Bis(2-Ethylhexyl)Phthalate			<5.00						<5.00		
4-Bromophenyl Phenyl Ether			<2.50						<2.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L) [3]	Effluent Measured in Φg/L (Actual Concentration or < MAL) [4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Butylbenzyl Phthalate			<2.50						<2.50		
2-Chloronaphthalene			<2.50						<2.50		
4-Chlorophenyl Phenyl Ether			<2.50						<2.50		
Chrysene			<2.50				4.58		<2.50		
Dibenzo(a,h)Anthracene			<2.50						<2.50		
1,2-Dichlorobenzene			<2.50						<2.50		
1,3-Dichlorobenzene			<2.50						<2.50		
1,4-Dichlorobenzene			<2.50				N/A		<2.50		
3,3-Dichlorobenzidine			<5.00						<5.00		
Diethyl Phthalate			<2.50						<2.50		
Dimethyl Phthalate			<2.50						<2.50		
Di-n-Butyl Phthalate			<2.50						<2.50		
2,4-Dinitrotoluene			<5.00						<5.00		
2,6-Dinitrotoluene			<5.00						<5.00		
Di-n-Octyl Phthalate			<2.50						<2.50		
1,2-Diphenyl Hydrazine			<2.50						<2.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Fluoranthene			<2.50						<2.50		
Fluorene			<2.50						<2.50		
Hexachlorobenzene			<0.05				0.00123		<0.05		
Hexachlorobutadiene			<2.50				0.399		<2.50		
Hexachloro- cyclopentadiene			<10.0						<10.0		
Hexachloroethane			<2.50				4.23		<2.50		
Indeno(1,2,3-cd)pyrene			<2.50						<2.50		
Isophorone			<2.50						<2.50		
Naphthalene			<2.50						<2.50		
Nitrobenzene			<2.50				3405		<2.50		
N-Nitrosodimethylamine			<2.50						<2.50		
N-Nitrosodi-n-Propylamine			<2.50						<2.50		
N-Nitrosodiphenylamine			<2.50						<2.50		
Phenanthrene			<2.50				25.2		<2.50		
Pyrene			<2.50						<2.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
1,2,4-Trichlorobenzene			<2.50						<2.50		
Aldrin			<0.050				0.0000208		<0.050		
Alpha-hexachlorocyclohexane (BHC)			<0.050				0.0152		<0.050		
beta-BHC			<0.050				0.472		<0.050		
gamma-BHC (Lindane)			<0.050				0.104		<0.050		
delta-BHC			<0.050						<0.050		
Chlordane			<5.00				0.00454		<5.00		
4,4-DDT			<0.050				0.000727		<0.050		
4,4-DDE			<0.050				0.000236		<0.050		
4,4-DDD			<0.050				0.00363		<0.050		
Dieldrin			<0.050				0.0000363		<0.050		
alpha-Endosulfan			<0.050				0.0729		<0.050		
beta-Endosulfan			<0.050				0.0729		<0.050		
Endosulfan Sulfate			<0.050				0.0729		<0.050		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Endrin			<0.050				0.00260		<0.050		
Endrin Aldehyde			<0.050						<0.050		
Heptachlor			<0.050				0.000181		<0.050		
Heptachlor Epoxide			<0.050				0.000527		<0.050		
Polychlorinated biphenols (PCBs) - The sum of PCB concentrations not to exceed daily average value							0.00116				
PCB-1242			<1.00				See PCBs		<0.50		
PCB-1254			<1.00				See PCBs		<0.50		
PCB-1221			<1.00				See PCBs		<0.50		
PCB-1232			<1.00				See PCBs		<0.50		
PCB-1248			<1.00				See PCBs		<0.50		
PCB-1260			<1.00				See PCBs		<0.50		
PCB-1016			<1.00				See PCBs		<0.50		
Toxaphene			<0.50				0.000260		<0.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Aluminum		586	1330	399	783		834	65.8	52.7	37.7	44.5
Barium		66.2	88.2	68.2	60.6		1000	27.9	24.9	23.2	11.3
Bis(chloromethyl) ether[7]							0.499				
Carbaryl			<4.00				1.68		<4.00		
Chloropyrifos			<0.0493				0.0534		<0.0493		
Cresols			<7.50				16909		<7.50		
2,4-D			<0.489				N/A		<0.490		
Danitol[8]							859				
Demeton			<0.0493				0.130		<0.0493		
Diazinon			<0.0493				0.143		<0.0493		
Dicofol			<0.0493				0.545		<0.0493		
Dioxin/Furans[9]							1.44E-07				
Diuron			<0.0800				91.2		<0.0800		
Fluoride			3370				N/A		<500		
Guthion			<0.0493				0.0130		<0.0493		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
Hexachlorophene			<10.0				5.27		<10.0		
Malathion			<0.0493				0.0130		<0.0493		
Methoxychlor			<0.00986				0.0391		<0.00986		
Methyl Ethyl Ketone			<25.0				1803488		<25.0		
Mirex			<0.00986				0.00130		<0.00986		
Nitrate-Nitrogen			<50.0				N/A		6510		
N-Nitrosodiethylamine			<2.50				3.81		<2.50		
N-Nitroso-di-n-Butylamine			<2.50				7.63		<2.50		
Parathion			<0.0493				0.0169		<0.0493		
Pentachlorobenzene			<2.50				0.645		<2.50		
Pyridine			<2.50				1721		<2.50		
1,2-Dibromoethane			<2.0				7.70		<2.0		
1,2,4,5-Tetrachlorobenzene			<2.50				0.436		<2.50		
2,4,5-TP (Silvex)			<0.293				670		<0.294		
Tributyltin[9]							0.0312				
2,4,5-Trichlorophenol			<2.50				83.4		<2.50		

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS

POLLUTANT	MAHL, if Applicable in lb./day	Influent Measured in Φg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (Φg/L)[3]	Effluent Measured in Φg/L (Actual Concentration or < MAL)[4]			
		02/06/23	05/23/23	07/18/23	10/24/23			02/06/23	05/23/23	07/18/23	10/24/23
TTHM (Total Trihalomethanes)			<5.0				N/A		36.8		

Footnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).

2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled, "Average Influent % of the MAHL", as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency Local Limits Development Guidance, July 2004, EPA933-R-04-002A).

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

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$
   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:
   L_{INF} = Current Average (Avg) influent loading in lb/day
   C_{POLL} = Avg concentration in µg/L of all influent samples collected during the pretreatment year.
   Q_{WWTP} = Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
   $L_{\%}$ = % of the MAHL
   MAHL = Calculated MAHL in lb/day
   8.34 = Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319 (Hazardous Metal Rule), TexTox values, or any applicable TPDES permit limit in Effluent Limitations and Monitoring Requirements Section. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.

4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables 8 and 9 of the Procedures to Implement the Texas Surface Water Quality Standards (January 2003), as amended and adopted by the TCEQ Commission. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.

5. Report result by subtracting Hexavalent Chromium from Total Chromium.

6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.

7. Hydrolyzes in water. Will not require permittee to analyze at this time.

8. EPA procedure not approved. Will not require permittee to analyze at this time.

9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Paris
TPDES Permit No.:	WQ0010479002
Outfall No.:	001
Prepared by:	Layla Aki
Date:	12/16/2020

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	To Hicks Creek; thence to Pine Creek, thence to Red River Below Lake Texoma of the Red River Basin
Perennial Stream/River within 3 Miles:	Pine Creek
Segment No.:	0202
TSS (mg/L):	19
pH (Standard Units):	7.3
Hardness (mg/L as $CaCO_3$):	175
Chloride (mg/L):	197
Effluent Flow for Aquatic Life (MGD):	7.25
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	1.7
% Effluent for Chronic Aquatic Life (Mixing Zone):	86.84
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	7.25
Harmonic Mean Flow (cfs) for perennial:	3.7
% Effluent for Human Health:	75.197
Human Health Criterion (select: PWS, FISH, or INC)	FISH

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

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	55784.03	0.485		1.00	Assumed
Cadmium	6.60	-1.13	142892.17	0.269		1.00	Assumed
Chromium (total)	6.52	-0.93	214170.25	0.197		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	214170.25	0.197		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	118501.09	0.308		1.00	Assumed
Lead	6.45	-0.80	267298.87	0.165		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	91434.57	0.365		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	115580.29	0.313		1.00	Assumed
Zinc	6.10	-0.70	160277.47	0.247		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	700	356	401	274	402	852
Cadmium	14.8	0.363	54.9	1.55	31.5	1.20	1.75	3.71
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00461	1.38	0.00355	0.00521	0.0110
Chlorpyrifos	0.083	0.041	0.0830	0.0472	0.0476	0.0364	0.0534	0.113
Chromium (trivalent)	901	117	4568	684	2617	527	774	1638
Chromium (hexavalent)	15.7	10.6	15.7	12.2	9.00	9.40	13.2	27.9
Copper	24.1	15.3	78.2	57.2	44.8	44.0	64.7	136
Cyanide (free)	45.8	10.7	45.8	12.3	26.2	9.49	13.9	29.5
4,4'-DDT	1.1	0.001	1.10	0.00115	0.630	0.000887	0.00130	0.00275
Demeton	N/A	0.1	N/A	0.115	N/A	0.0887	0.130	0.275
Diazinon	0.17	0.17	0.170	0.196	0.0974	0.151	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	22.8	34.0	17.6	25.8	54.6
Dieldrin	0.24	0.002	0.240	0.00230	0.138	0.00177	0.00260	0.00551
Diuron	210	70	210	80.6	120	62.1	91.2	193
Endosulfan I (*alpha*)	0.22	0.056	0.220	0.0645	0.126	0.0497	0.0729	0.154
Endosulfan II (*beta*)	0.22	0.056	0.220	0.0645	0.126	0.0497	0.0729	0.154
Endosulfan sulfate	0.22	0.056	0.220	0.0645	0.126	0.0497	0.0729	0.154
Endrin	0.086	0.002	0.0860	0.00230	0.0493	0.00177	0.00260	0.00551
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0115	N/A	0.00887	0.0130	0.0275
Heptachlor	0.52	0.004	0.520	0.00461	0.298	0.00355	0.00521	0.0110
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.0921	0.645	0.0709	0.104	0.220
Lead	118	4.60	718	32.2	411	24.8	36.4	77.1
Malathion	N/A	0.01	N/A	0.0115	N/A	0.00887	0.0130	0.0275
Mercury	2.4	1.3	2.40	1.50	1.38	1.15	1.69	3.58
Methoxychlor	N/A	0.03	N/A	0.0345	N/A	0.0266	0.0391	0.0827
Mirex	N/A	0.001	N/A	0.00115	N/A	0.000887	0.00130	0.00275
Nickel	752	83.5	2058	263	1179	203	297	630
Nonylphenol	28	6.6	28.0	7.60	16.0	5.85	8.60	18.2
Parathion (ethyl)	0.065	0.013	0.0650	0.0150	0.0372	0.0115	0.0169	0.0358
Pentachlorophenol	11.8	9.0	11.8	10.4	6.76	8.02	9.93	21.0
Phenanthrene	30	30	30.0	34.5	17.2	26.6	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0161	1.15	0.0124	0.0182	0.0386
Selenium	20	5	20.0	5.76	11.5	4.43	6.51	13.7
Silver	0.8	N/A	28.5	N/A	16.3	N/A	23.9	50.7
Toxaphene	0.78	0.0002	0.780	0.000230	0.447	0.000177	0.000260	0.000551
Tributyltin [TBT]	0.13	0.024	0.130	0.0276	0.0745	0.0213	0.0312	0.0661
2,4,5 Trichlorophenol	136	64	136	73.7	77.9	56.7	83.4	176
Zinc	188	190	762	884	436	681	641	1357

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	153	142	209	442
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000153	0.0000142	0.0000208	0.0000441
Anthracene	1109	1317	13170	1751	1629	2394	5065
Antimony	6	1071	10710	1424	1325	1947	4119
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	773	719	1056	2234
Benzidine	0.0015	0.107	1.07	0.142	0.132	0.194	0.411
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0332	0.0309	0.0454	0.0961
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00332	0.00309	0.00454	0.00961
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.365	0.339	0.499	1.05
Bis(2-chloroethyl)ether	0.60	42.83	428.3	57.0	53.0	77.8	164
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	10.0	9.34	13.7	29.0
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	366	340	499	1057
Bromoform [Tribromomethane]	66.9	1060	10600	1410	1311	1927	4077
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	61.2	56.9	83.6	176
Chlordane	0.0025	0.0025	0.025	0.00332	0.00309	0.00454	0.00961
Chlorobenzene	100	2737	27370	3640	3385	4975	10527
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	243	226	332	703
Chloroform [Trichloromethane]	70	7697	76970	10236	9519	13993	29605
Chromium (hexavalent)	62	502	5020	668	621	912	1930
Chrysene	2.45	2.52	25.2	3.35	3.12	4.58	9.69
Cresols [Methylphenols]	1041	9301	93010	12369	11503	16909	35774
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00266	0.00247	0.00363	0.00769
4,4'-DDE	0.00013	0.00013	0.0013	0.000173	0.000161	0.000236	0.000500
4,4'-DDT	0.0004	0.0004	0.004	0.000532	0.000495	0.000727	0.00153
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	629	585	859	1819
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	5.64	5.24	7.70	16.3
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	791	736	1081	2288
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	4387	4080	5997	12688
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	2.98	2.77	4.07	8.61
1,2-Dichloroethane	5	364	3640	484	450	661	1400
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	73293	68163	100199	211985
Dichloromethane [Methylene Chloride]	5	13333	133330	17731	16490	24239	51282
1,2-Dichloropropane	5	259	2590	344	320	470	996
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	158	147	216	457
Dicofol [Kelthane]	0.30	0.30	3	0.399	0.371	0.545	1.15
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000266	0.0000247	0.0000363	0.0000769
2,4-Dimethylphenol	444	8436	84360	11219	10433	15336	32447
Di-*n*-Butyl Phthalate	88.9	92.4	924	123	114	167	355
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.06E-07	9.86E-08	1.44E-07	3.06E-07
Endrin	0.02	0.02	0.2	0.0266	0.0247	0.0363	0.0769
Epichlorohydrin	53.5	2013	20130	2677	2490	3659	7742
Ethylbenzene	700	1867	18670	2483	2309	3394	7181
Ethylene Glycol	46744	1.68E+07	1.68E+08	22341414	20777515	30542947	64618071
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000133	0.000124	0.000181	0.000384
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000386	0.000359	0.000527	0.00111
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000904	0.000841	0.00123	0.00261
Hexachlorobutadiene	0.21	0.22	2.2	0.293	0.272	0.399	0.846
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0112	0.0104	0.0152	0.0323
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.346	0.322	0.472	1.00
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.453	0.422	0.619	1.31
Hexachlorocyclopentadiene	10.7	11.6	116	15.4	14.3	21.0	44.6
Hexachloroethane	1.84	2.33	23.3	3.10	2.88	4.23	8.96
Hexachlorophene	2.05	2.90	29	3.86	3.59	5.27	11.1
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	21254	19766	29055	61471
Lead	1.15	3.83	38.3	31.0	28.8	42.3	89.5
Mercury	0.0122	0.0122	0.122	0.0162	0.0151	0.0221	0.0469
Methoxychlor	2.92	3.0	30	3.99	3.71	5.45	11.5
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1319207	1226863	1803488	3815543
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	13939	12964	19056	40317
Nickel	332	1140	11400	4150	3859	5673	12002
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2491	2316	3405	7204
N-Nitrosodiethylamine	0.0037	2.1	21	2.79	2.60	3.81	8.07
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	5.59	5.19	7.63	16.1
Pentachlorobenzene	0.348	0.355	3.55	0.472	0.439	0.645	1.36
Pentachlorophenol	0.22	0.29	2.9	0.386	0.359	0.527	1.11

Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000851	0.000792	0.00116	0.00246
Pyridine	23	947	9470	1259	1171	1721	3642
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.319	0.297	0.436	0.923
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	35.0	32.6	47.9	101
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	372	346	509	1076
Thallium	0.12	0.23	2.3	0.306	0.284	0.418	0.884
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0146	0.0136	0.0199	0.0423
2,4,5-TP [Silvex]	50	369	3690	491	456	670	1419
1,1,1-Trichloroethane	200	784354	7843540	1043070	970055	1425981	3016871
1,1,2-Trichloroethane	5	166	1660	221	205	301	638
Trichloroethylene [Trichloroethene]	5	71.9	719	95.6	88.9	130	276
2,4,5-Trichlorophenol	1039	1867	18670	2483	2309	3394	7181
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	21.9	20.4	29.9	63.4

Worksheet Calculations for Avg Influent % of MAHL
City of Paris WWTP
Influent MGD by Month

	2023	
J	3.34	
F	4.83	
M	5.53	
A	4.54	
M	3.63	
J	3.32	
J	3.78	
A	2.23	
S	2.27	
O	2.46	
N	2.49	
D	2.71	
Avg:	3.43	MGD

Influent Avg. for TBLL Pollutants (in ug/L)

2023	2/6/2023	5/23/2023	7/18/2023	10/24/2023	Avg	L inf	Current TBLL MAHL	from Equation B L %
Arsenic	1.16	2.39	2.27	1.89	1.9275	0.055	9.53	0.58%
Cadmium	**0.5**	**0.5**	**0.5**	**0.5**	0.5	0.014	6.10	0.23%
Chromium	**1.5**	**1.5**	**1.5**	**1.5**	1.5	0.043	153.24	0.03%
Copper	12.2	24.6	12	35.2	21	0.600	173.97	0.35%
Lead	1.26	3.93	1.16	2.59	2.235	0.064	51.50	0.12%
Mercury	0.00624	0.0108	0.00598	0.00584	0.007215	0.000	0.10	0.21%
Nickel	13.9	16.1	10.8	18.0	14.7	0.420	302.00	0.14%
Selenium	**2.5**	**2.5**	**2.5**	**2.5**	2.5	0.071	7.54	0.95%
Molybdenum	**0.5**	1.33	**0.5**	**0.5**	0.7075	0.020	15.69	0.13%
Silver	**0.25**	**0.25**	**0.25**	**0.25**	0.25	0.007	165.15	0.00%
Zinc	73.6	132	61	137	100.9	2.884	410.98	0.70%
Cyanide a	**5**	**5**		**5**	**5**	0.143	44.45	0.32%
Cyanide tot	**5**	**5**	**5**	**5**	**5**	0.143	44.45	0.32%

Values in **Bold** are one-half MAL or reported Detection Limit

Maximum Allowable Headworks Loadings (MAHLs) Calculations

	Max. lbs	Q potw MGD	lbs/gal	MAHL mg/L	MAHL ug/L
As	0.34	4.28	8.34	0.0095	9.53
Cd	0.2176	4.28	8.34	0.0061	6.10
Cr	5.47	4.28	8.34	0.1532	153.24
Cu	6.21	4.28	8.34	0.1740	173.97
CN	1.5867	4.28	8.34	0.0445	44.45
Pb	1.8384	4.28	8.34	0.0515	51.50
Hg	0.0037	4.28	8.34	0.0001	0.10
Mo	0.56	4.28	8.34	0.0157	15.69
Ni	10.78	4.28	8.34	0.3020	302.00
Se	0.2691	4.28	8.34	0.0075	7.54
Ag	5.895	4.28	8.34	0.1651	165.15
Zn	14.67	4.28	8.34	0.4110	410.98

Maximum allowable daily pounds derived from most recent Technically-Based Local Limits re-evaluation using most stringent calculation for: allowable sludge cumulative application rate, sludge ceiling concentration, inhibition or pass through.

Explanation of how to apply daily average numeric limits from the Texas Toxicity Modeling Program

These criteria apply only to the effluent from the publicly owned treatment works (POTW) and not to the indirect discharges from industrial users.

1) The daily average numeric limits have been calculated by the Texas Toxicity Modeling Program (TexTox) based on dilution, metal adsorption, and statistical permitting factors, so the daily average values may be used as the Texas Pollutant Discharge Elimination System (TPDES) permit effluent limits in micrograms per liter (μg/L).

2) If there are multiple limits for the same wastewater treatment plant in the TexTox results, then you must select the most stringent limit for each common parameter. For example, one limit for mercury may be based on the protection of aquatic life, and the other mercury limit may be based on the protection of human health. The most stringent limit must be selected.

3) Next compare the most stringent TexTox daily average numeric limits to the attached *average* values from Title 30 of the Texas Administrative Code (TAC) Chapter 319. The most stringent value between the TexTox value and the 30 TAC 319 *average* value must be selected. The 30 TAC Chapter 319 defines the average quality as the arithmetic average (weighted by flow value) of all the daily determinations of concentrations made during a calendar month. Daily determinations of concentrations made using a *composite* sample shall be the concentration of the composite sample. When *grab* samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during the calendar day.

4) If the Effluent Limitations and Monitoring Requirements Section of the TPDES permit contains a daily average effluent limit for any parameter in the TexTox results, then the daily average TPDES permit limit must be used rather than either the TexTox or 30 TAC 319 values.

Also enclosed is a list of pollutants regulated under the Texas Surface Water Quality Standards that are not included on the U.S. Environmental Protection Agency's (EPA) 126 priority pollutant list (40 Code of Federal Regulations Part 122). Please ensure that you are testing for all of the pollutants listed in this document, as well as the EPA's 126 priority pollutants.

For TPDES pretreatment program annual reports, the daily average of the most stringent values above or the actual TPDES permit limits may be used as the effluent limits in on the TPDES Pretreatment Program Annual Report Form for the Influent and Effluent Monitoring Results Table, reported in μg/L.

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For local limit development, the daily average of the most stringent values above or the actual TPDES permit effluent limits are to be converted into milligrams per liter (mg/L), then used in calculating the allowable headworks loading (MAHL), based on the TPDES permit limit, using the following equation:

$$L_{influent} = \frac{(8.34)(Q_{POTW})(C_{NPDES})}{(1 - R_{POTW})}$$

Equation 5-5
Local Limits
Development
Guidance

where:

- C_{NPDES} = TPDES Permit Limit (Or use criteria as explained above), mg/L
- Q_{POTW} = Average Treatment Plant Flow, MGD
- R_{POTW} = Removal Efficiency Across Plant, as a decimal
- $L_{influent}$ = Allowable Headworks Loading, lbs/day

This will allow you to calculate local limits that will prevent discharges that violate the Texas Surface Water Quality Standards (TSWQS). It is not necessary to perform any of the water quality calculations described in the EPA *Local Limits Development Guidance*, July 2004, when these criteria are used as TPDES permit effluent limits.

SUBCHAPTER B : HAZARDOUS METALS

'319.21. Definitions.

The following words and terms, when used in this subchapter, shall have the following meanings, unless the context clearly indicates otherwise:

Average quality - the arithmetic average (weighted by flow value) of all the daily determinations of concentrations made during a calendar month. Daily determinations of concentrations made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during the calendar day.

Daily composite quality - the concentration of a sample consisting of a minimum of three grab samples of effluent collected at regular intervals over a normal operating day and combined proportional to flow, or a sample continuously collected proportional to flow over a normal operating day.

Grab sample quality - the concentration of an individual sample of effluent collected in less than 15 minutes.

Hazardous metal - includes each of the following metals in its elemental state and any of its compounds expressed as that metal: arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc.

Inland waters - all surface waters in the state other than "tidal waters" defined below.

Tidal waters - those waters of the Gulf of Mexico within the jurisdiction of the State of Texas, bays and estuaries thereto, and those portions of the river systems which are subject to the ebb and flow of the tides, and to the intrusion of marine waters.

Source Note: The provisions adopted to be effective July 2, 1986, 11 TexReg 2893.

'319.22. Quality Levels - Inland Waters.

The allowable concentrations of each of the hazardous metals, stated in terms of milligrams per liter (mg/l), for discharge to inland waters are as follows:

	Not to Exceed		
Metal	Average	Daily Composite	Grab Sample
Arsenic	0.1	0.2	0.3
Barium	1.0	2.0	4.0
Cadmium	0.05	0.1	0.2
Chromium	0.5	1.0	5.0
Copper	0.5	1.0	2.0
Lead	0.5	1.0	1.5
Manganese	1.0	2.0	3.0
Mercury	0.005	0.005	0.01
Nickel	1.0	2.0	3.0
Selenium	0.05	0.1	0.2
Silver	0.05	0.1	0.2
Zinc	1.0	2.0	6.0

'319.23. Quality Levels - Tidal Waters.

The allowable concentrations of each of the hazardous metals, stated in terms of milligrams per liter (mg/l), for discharge of tidal waters are as follows:

	Not to Exceed		
Metal	Average	Daily Composite	Grab Sample
Arsenic	0.1	0.2	0.3
Barium	1.0	2.0	4.0
Cadmium	0.1	0.2	0.3
Chromium	0.5	1.0	5.0
Copper	0.5	1.0	2.0
Lead	0.5	1.0	1.5
Manganese	1.0	2.0	3.0
Mercury	0.005	0.005	0.01
Nickel	1.0	2.0	3.0
Selenium	0.1	0.2	0.3
Silver	0.05	0.1	0.2
Zinc	1.0	2.0	6.0

Source Note: The provisions adopted to be effective July 2, 1986, 11 TexReg 2893.

NON-PRIORITY TOXIC POLLUTANTS REGULATED UNDER CHAPTER 307

EPA Approval Effective 4-30-1997 Aquatic Life and Human Health criteria
EPA Approved Revisions Effective 6-30-2004 Human Health criteria
EPA Approval Revisions Effective 6-29-2011 Aquatic Life and Human Health criteria
EPA Approval Revisions Effective 9-23-2014 Human Health criteria

The following pollutants are regulated under the Texas Surface Water Quality Standards [30 Texas Administrative Code, Chapter 307], but are **NOT** included on EPA's Priority Pollutant List:

Aluminum
Barium
Bis(chloromethyl)ether[1]
Carbaryl
Chloropyrifos
Cresols
2,4-D
Danitol
Demeton
Diazinon[2]
Dicofol
Dioxin/Furans[1]
Fluoride
Guthion
Hexachlorophene
Malathion
Methoxychlor
Methyl Ethyl Ketone
Mirex
Nitrate-Nitrogen
N-Nitrosodiethylamine
N-Nitroso-di-n-Butylamine
Nonylphenol[2]
Parathion
Pentachlorobenzene
Pyridine
1,2-Dibromoethane[2]
1,2,4,5-Tetrachlorobenzene
2,4,5-TP (Silvex)
Tributyltin[1]
2,4,5-Trichlorophenol
TTHM (Total Trihalomethanes)

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[1] Analyses are not required at this time for the pollutants marked with an asterisk unless there is reason to believe that those pollutants may be present.
[2] Pollutants were added to 30 TAC 307.6(d)(1)

Revised July 3, 2015

Sec. 34-106. - Specific pollutant limitations.

No person shall discharge wastewater in excess of the following allowable concentrations of specific pollutants:

These limits shall be applied uniformly to the end of pipe discharge.

Value not to be exceeded:

Pollutant	Daily Maximum milligrams/liter	
Arsenic (As)	0.05	
Cadmium (Cd)	0.06	
Chromium (Cr)	1.48	
Copper (Cu)	0.92	
*Cyanide (CN)	0.39	
Lead (Pb)	0.47	
Mercury (Hg)	0.0001	
Molybdenum (Mo)	0.14	
Nickel (Ni)	2.94	
Selenium (Se)	0.05	
Silver (Ag)	1.61	
Zinc (Zn)	2.80	Mo.
*Grease, fat, oil	200 Max.	100 Avg.
(animal or vegetable, free or emulsified)	Total all sources	Mo.
*Oil, wax, paraffin	20 Max.	20 Avg.
(Petroleum based or mineral, free or emulsified)	Total all sources	
* — By grab sample only.		

(Ord. No. 2004-015, § 3, 6-14-04)

Sec. 34-107. - State and federal limitations on discharges.

State and/or federal limitations and requirements on discharges, which apply to the POTW or its users, shall apply in all cases where they are more stringent that those contained herein, and, where state and federal limitations differ, the lower limit shall apply.

(Ord. No. 2004-015, § 3, 6-14-04)

Sec. 34-108. - Excessive discharge.

No user shall ever increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in the federal categorical pretreatment standards, or in any other pollutant-specific limitation developed by the city or the state, including BOD_5 and TSS. Dilution may, however, be acceptable as a means of controlling some of the prohibited discharge levels which shall be subject to the specific approval of the supervisor.

(Ord. No. 2004-015, § 3, 6-14-04)

Sec. 34-109. - Hazardous waste notification.

It shall be unlawful for an industrial user to fail to notify the Environmental Services Division, federal and state hazardous waste authorities in writing of any discharge into the POTW of a substance, which if otherwise disposed of, would be a hazardous waste under 40 CFR, part 261. The notice herein required does not relieve the industrial user of its obligation to comply with any RCRA, CERCLA, or SARA requirements relating to handling of such hazardous wastes.

(Ord. No. 2004-015, § 3, 6-14-04)

Sec. 34-110. - Force majeure.

(a) If a person can establish that an event that would otherwise be a violation of any conditions of this ordinance, or a permit issued under this ordinance, was caused solely by an act of God, war, strike, riot or other catastrophe, the event is not a violation of the ordinance or permit.

(b) If force majeure is claimed as an affirmative defense to an action brought forth under this ordinance, the user shall demonstrate, through relevant evidence that:

  (1) An event that would otherwise be a violation of this ordinance, or permit issued under this ordinance, has occurred and the sole cause was an act of God, war, strike, riot or other catastrophe; and

  (2) The user has submitted the following information to the city within twenty-four (24) hours of becoming aware of the event (if this information is provided orally, a written submission must be provided within five (5) days):

    a. A description of the event and the nature and cause of the event;

    b. The time period of the event, including exact dates and times or, if not corrected, the anticipated time the event is expected to continue;

    c. Steps being taken and/or planned to reduce, eliminate and prevent recurrence of the event.

(c) The user seeking to establish an affirmative defense under this section shall have the burden of proof in any enforcement proceeding of providing by a preponderance of evidence that an event that would otherwise be a violation of this ordinance or permit issued under this ordinance, was caused solely by an act of God, war, strike, riot or other catastrophe.

(Ord. No. 2004-015, § 3, 6-14-04)

ERA
A Waters Company

Josh Hart
City of Paris WWTP
PO Box 9037
Paris, TX 75461-9037
USA

DMR-QA 44 Final Report

DMR-QA Proficiency Testing

NPDES Permit: TX0027910

DMR-QA Study

Open Date: 05/17/2024

Close Date: 08/30/2024

Report Issued Date: 09/27/2024

ERA
A Waters Company

September 27, 2024

Josh Hart
City of Paris WWTP
PO Box 9037
Paris, TX 75461-9037

Enclosed is your final report for ERA's DMR-QA 44 Proficiency Testing study. Please note that reports were sent on your behalf to your state or regional DMR-QA coordinator. As the permit holder, you are required to review and sign the attached EPA forms and checklists and forward them to your DMR-QA coordinator by October 25, 2024. Your coordinator's contact information is provided below.

All analytes in ERA's DMR-QA 44 Proficiency Testing study have been evaluated by comparing the reported result to the acceptance limits generated using the criteria contained in the most current TNI Non-Potable Water and Whole Effluent Toxicity Testing-Non Potable Water Fields of Proficiency Testing (FoPT) tables.

If you have any "Not Acceptable" evaluations for the DMR-QA 44 study, a letter of corrective action and an order form for the required remedial samples are attached for your convenience. If you have a "Not Acceptable" evaluation, but there is not an order form or a list of standards for your in-house or outside laboratories, ERA recommends that you contact your DMR-QA coordinator for their corrective action requirements, if any.

Thank you for your participation in ERA's DMR-QA 44 Proficiency Testing study. If you have any questions, please contact the Proficiency Testing Department at 1-800-372-0122 or interlabgroup@eraq.com.

Your DMR-QA coordinator is:

Texas Commission on Environmental Quality
Lauren Whitehurst
PO Box 13087, MC 165
Austin, TX 78711
Phone: 512-239-6684
Lauren.Whitehurst@tceq.texas.gov

Sincerely,

Craig Huff
Senior Technical Manager

attachments

ERA
A Waters Company

DMR-QA 44 Definitions & Study Discussion

Study Dates: 05/17/2024 - 08/30/2024 **Report Issued: 09/27/2024**

DMRQA Study Definitions

The Reported Value is the value that the laboratory reported to ERA.

The ERA Assigned Values are compliant with the most current TNI Fields of Proficiency Testing (FoPT) table. A parameter not added to the standard is given an Assigned Value of "< PTRL" per the guidelines contained in the 2016 TNI Standard. The assigned values are directly traceable to the commercially prepared starting materials used to manufacture the PT standards.

The Acceptance Limits are established per the criteria contained in the most current TNI FoPT table or ERA's SOP for the Generation of Performance Acceptance Limits™ as applicable.

The Performance Evaluation:

Acceptable	= Reported Value falls within the Acceptance Limits.
Not Acceptable	= Reported Value falls outside the Acceptance Limits.
No Evaluation	= Reported Value cannot be evaluated.
Not Reported	= No Value reported.

The Method Description is the method the laboratory reported to ERA.

DMRQA Study Discussion

ERA's DMR-QA 44 Proficiency Testing study has been reviewed by ERA senior management and certified compliant with the requirements of the 2016 TNI Standard and the criteria contained in the most current TNI Fields of Proficiency Testing (FoPT) table.

ERA's DMR-QA 44 study standards were examined for any anomalies. A full review of all homogeneity, stability and accuracy verification data was completed. All analytical verification data for all analytes met the acceptance criteria contained in the 2016 TNI Standard and the criteria contained in the most current TNI FoPT table.

All analytes are included in ERA's A2LA accreditation, certification number 1539.01.

All activities associated with this proficiency testing study were performed by Waters/ERA with the exception of those noted below. The following physical samples/products were manufactured for Waters/ERA by a subcontractor:

Microbiology products with the following catalog numbers: 880, 935, 079, 077, 080, 595, 595A, 576, 576A

The data submitted by participating laboratories was also examined for study anomalies. There were no anomalies observed during the statistical review of the data.

ERA's DMR-QA 44 study reports shall not be reproduced except in their entirety and not without the permission of the participating laboratories. The report must not be used by the participating laboratories to claim product endorsement by any agency of the U. S. government.

The data contained herein are confidential and intended for your use only.

If you have any questions or concerns regarding your assessment in ERA's DMRQA Proficiency Testing program, please contact our Proficiency Testing Department at 1-800-372-0122 or interlabgroup@eraqc.com.

ERA
A Waters Company

Study: **DMR-QA 44**

NPDES Permit #: **TX0027910**

Laboratory Name: **City of Paris WWTP**

WET Results

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

DMR-QA 44 Final Report

NPDES Permit #: TX0027910
Permit Holder: Josh Hart
City of Paris WWTP
903-785-6376

ERA Customer Number: C075802
Report Issued: 09/27/2024
Study Dates: 05/17/2024 - 08/30/2024

Analyte Code	Test End Point	Performance Evaluation	Reported Value %	Assigned Value %	Acceptance Limits %	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRWet Fathead minnow (Test Code 13) (cat# WET002, lot# Q044-002)										
48Hr., Acute, Non-Renewal, 25° C, MHSF										
Potassium chloride										
0754	LC50	Acceptable	53.4	41.0	25.5 - 56.5	EPA 2000.0 MHSF 25 deg C 5th ED 2002	41.0	7.77	TX00908	DMRWet44
DMRWet Daphnia pulex (Test Code 38) (cat# WET015, lot# Q044-015)										
48Hr., Acute, Non-Renewal, 25° C, MHSF										
Potassium chloride										
0794	LC50	Acceptable	58.4	56.7	27.6 - 85.7	EPA 2021.0 MHSF 25 deg C 5th ED 2002	56.7	14.5	TX00908	DMRWet44

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USEPA
DMR-QA 44

NPDES PERMITTEE DATA REPORT FORM

Due October 25, 2024

USEPA NPDES Permit #: TX0027910 **Permit Ext:**

Permittee Name: City of Paris WWTP

Facility Address:

City: **State:** **Postal Code:**

Phone Number: 903-785-6376 **Fax Number:**

E-mail address: jhart@paristexas.gov

Optional: If WP study was used, list PT provider name: _____

Optional: WP study number(s): _____

For DMRQA-44, conducted in 2024, the Permittee ensured that their laboratory(s) performing the required analyses:

Received PT Samples	Submitted Complete and Accurate Data by August 30, 2024	Received a Graded Report by September 27, 2024
Yes ☐ No ☐	Yes ☐ No ☐	Yes ☐ No ☐

Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data under our NPDES permit.	Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to U.S. EPA.
Yes ☐ No ☐	Yes ☐ No ☐

Certification by Permit Holder or Authorized Representative

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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official: Josh Hart **Title:**

Signature: _____ **Date Signed:** / /

Mailing Address: PO Box 9037

(enter only if different from address above)

City: Paris **State:** TX **Postal Code:** 75461-9037

Phone Number: 903-785-6376 **E-mail address:** jhart@paristexas.gov

Please make corrections in boxes above

United States

ENVIRONMENTAL PROTECTION AGENCY

Laboratory Performance Evaluation

Laboratory DMR-QA Evaluation Study 44

USEPA NPDES Permit #: TX0027910 **Permit Ext:**

Identification of all CHEM, MICRO and TOX laboratories who did analyses for this permit							
Name of Laboratory	**Address of Laboratory**	**U.S. EPA Lab Code**	**Lab Analysis** Check box(es) that apply			**Lab Type***	**State-certified Lab****
			CHEM	**MICRO**	**TOX**		
Bio-Aquatic Testing, Inc.	2501 Mayes Rd Ste. 100 Carrollton,TX 75006	TX00908	☐	☐	☐		☐

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State

** See Footnote 2 on DMRQA-44, Frequently Asked Questions page

Permittee Name: City of Paris WWTP **Permit Number:** TX0027910 **EPA Lab Code:** TX00908

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 44

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable	Not Acceptable (Corrective Action Required)	
Fathead minnow (Test Code 13)						
0754	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
	EPA 2000.0 MHSF 25 deg C		☐	☒	☐	☐
Fathead minnow (Test Code 14)						
0755	48Hr., Acute, Non-Renewal, 25° C, 20% DMW	LC50				
Fathead minnow (Test Code 15)						
0808	7-day Chronic, Daily Renewal, MHSF	IC25 (ON) Growth				
0810	7-day Chronic, Daily Renewal, MHSF	NOEC (ON) Growth				
0756	7-day Chronic, Daily Renewal, MHSF	NOEC Survival				
Fathead minnow (Test Code 16)						
0812	7-day Chronic, Daily Renewal, 20% DMW	IC25 (ON) Growth				
0814	7-day Chronic, Daily Renewal, 20% DMW	NOEC (ON) Growth				
0759	7-day Chronic, Daily Renewal, 20% DMW	NOEC Survival				
Ceriodaphnia dubia (Test Code 19)						
0764	48-Hr Acute, Nonrenewal, 25° C, MHSF	LC50				
Ceriodaphnia dubia (Test Code 20)						
0765	48-Hr Acute, Nonrenewal, 25° C, 20% DMW	LC50				
Ceriodaphnia dubia (Test Code 21)						
0767	3-Brood Chronic, Daily Renewal, MHSF	IC25 Reproduction				
0768	3-Brood Chronic, Daily Renewal, MHSF	NOEC Reproduction				
0766	3-Brood Chronic, Daily Renewal, MHSF	NOEC Survival				
Ceriodaphnia dubia (Test Code 22)						
0770	3-Brood Chronic, Daily Renewal, 20% DMW	IC25 Reproduction				
0771	3-Brood Chronic, Daily Renewal, 20% DMW	NOEC Reproduction				
0769	3-Brood Chronic, Daily Renewal, 20% DMW	NOEC Survival				
Daphnia magna (Test Code 32)						
0788	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
Daphnia pulex (Test Code 38)						
0794	48Hr., Acute, Non-Renewal, 25° C, MHSF	LC50				
	EPA 2021.0 MHSF 25 deg C		☐	☒	☐	☐
Mysid (Test Code 42)						
0798	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Mysid (Test Code 43)						
0816	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth				
0818	7-day Chronic, Daily Renewal, SSW	NOEC (ON) Growth				
0799	7-day Chronic, Daily Renewal, SSW	NOEC Survival				

Permittee Name: City of Paris WWTP **Permit Number:** TX0027910 **EPA Lab Code:** TX00908

WET Organisms/Test Conditions/End Points Checklist

DMRWet Study 44

Analyte Number	Organisms / Conditions	End Points	Test Req	Laboratory's Graded Result		Analyte determined by state-certified lab
				Acceptable	Not Acceptable (Corrective Action Required)	
Inland silverside (Test Code 44)						
0803	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Inland Silverside (Test Code 45)						
0825	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth				
0826	7-day Chronic, Daily Renewal, SSW	NOEC (ON) Growth				
0824	7-day Chronic, Daily Renewal, SSW	NOEC Survival				
Sheepshead minnow (Test Code 46)						
0804	48-Hr Acute, Nonrenewal, 25° C, SSW	LC50				
Sheepshead minnow (Test Code 47)						
0820	7-day Chronic, Daily Renewal, SSW	IC25 (ON) Growth				
0822	7-day Chronic, Daily Renewal, SSW	NOEC (ON) Growth				
0805	7-day Chronic, Daily Renewal, SSW	NOEC Survival				

Print Name

Date

Signature/Title

Use a separate checklist for EACH lab used

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	22	08	01	TO	22	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.0**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**7.04**	******	**7.55**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**148.33**	******	(26)	******	**6.92**	**11.20**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**11.89**	******	(26)	******	**0.5618**	**1.2700**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,542**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.14**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**2.55**	**3.92**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	22	09	01	TO	22	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.0**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.89**	******	**7.37**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**103.14**	******	(26)	******	**5.07**	**8.40**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**20.32**	******	(26)	******	**1.0010**	**2.1900**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,264**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.14**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**2.44**	**2.99**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	22	10	01	TO	22	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	7.1	******	******	(19) MG/L	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******			5 TMS/ WEEK	GRAB
pH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	6.63	******	7.39	(12) SU	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM			5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	139.24	******	(26) LBS/DAY	******	6.11	9.60	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PREMIT REQUIREMENT	DAILY AV	******		******	15 DAILY AV	40 DAILY MX			5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N) 0610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	7.86	******	(26) LBS/DAY	******	0.4115	1.8700	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PERMIT REQUIREMENT	DAILY AV	******		******	2 DAILY AV	10 DAILY MX			5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 P 0 0 SEE COMENTS BELOW	SAMPLE MEASUREMENT	******	6,181	(78) GPM	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	******	12042 2HR PEAK		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 Y 0 0 ANNUAL AVERAGE	SAMPLE MEASUREMENT	3.15	******	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	7.25 ANN AVG	******		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.69	6.82	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX		******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	22	11	01	TO	22	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	**** ****	**7.5**	******	******	(19) MG/L	**0**	**6/DAY**	**GRAB**
	PERMIT REQUIREMENT	******	******		**MO MIN**	******	******			5 TMS/ WEEK	GRAB
pH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	**** ****	**6.63**	******	**7.44**	(12) SU	**0**	**6/DAY**	**GRAB**
	PERMIT REQUIREMENT	******	******		MINIMUM	******	**MAXIMUM**			5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	**155.56**	******	(26) LBS/DAY	******	**5.45**	**7.60**	(19) MG/L	**0**	**5 TMS/ WEEK**	**COMPOS**
	PREMIT REQUIREMENT	**DAILY AV**	******		******	**15 DAILY AV**	**40 DAILY MX**			5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N) 0610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	**6.84**	******	(26) LBS/DAY	******	**0.2119**	**1.2000**	(19) MG/L	**0**	**5 TMS/ WEEK**	**COMPOS**
	PERMIT REQUIREMENT	**DAILY AV**	******		******	2 DAILY AV	10 DAILY MX			5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 P 0 0 SEE COMENTS BELOW	SAMPLE MEASUREMENT	******	**5,000**	(78) GPM	******	******	******	**** ****	**0**	**CONTIN-UOUS**	**TOTALZ**
	PERMIT REQUIREMENT	******	**12042 2HR PEAK**		******	******	******			CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 Y 0 0 ANNUAL AVERAGE	SAMPLE MEASUREMENT	**3.20**	******	(03) MGD	******	******	******	**** ****	**0**	**CONTIN-UOUS**	**TOTALZ**
	PERMIT REQUIREMENT	**7.25 ANN AVG**	******		******	******	******			CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	**3.52**	**5.90**	(03) MGD	******	******	******	**** ****	**0**	**CONTIN-UOUS**	**TOTALZ**
	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX		******	******	******			CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	22	12	01	TO	22	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**8.2**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.26**	******	**7.14**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**310.78**	******	(26)	******	**9.22**	**31.20**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**10.26**	******	(26)	******	**0.3432**	**1.3100**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**4,097**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.32**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.98**	**5.58**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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DOMESTIC FACILITY-OUTFALL 001

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NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	01	01	TO	23	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	8.7	******	******	(19)	0	6/DAY	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	6.68	******	7.91	(12)	0	6/DAY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	267.03	******	(26)	******	7.69	38.00	(19)	0	5 TMS/ WEEK	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	15 DAILY AV	40 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	13.49	******	(26)	******	0.4134	2.4600	(19)	0	5 TMS/ WEEK	COMPOS
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	5,208	(78)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	12042 2HR PEAK	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.39	******	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	7.25 ANN AVG	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.77	5.72	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	23	02	01	TO	23	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	8.7	******	******	(19)	0	6/DAY	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	6.54	******	7.12	(12)	0	6/DAY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	291.97	******	(26)	******	6.44	11.20	(19)	0	5 TMS/ WEEK	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	15 DAILY AV	40 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	5.67	******	(26)	******	0.1252	0.2820	(19)	0	5 TMS/ WEEK	COMPOS
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	5,694	(78)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	12042 2HR PEAK	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.53	******	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	7.25 ANN AVG	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	5.28	7.52	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

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MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	03	01	TO	23	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**8.2**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.73**	******	**7.25**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**426.03**	******	(26)	******	**8.49**	**24.40**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**8.74**	******	(26)	******	**0.1774**	**0.6480**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**6,042**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.74**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**6.03**	**8.27**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

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DOMESTIC FACILITY-OUTFALL 001

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NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	04	01	TO	23	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	8.1	******	******	(19)	0	6/DAY	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	6.75	******	7.33	(12)	0	6/DAY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	361.46	******	(26)	******	8.51	16.00	(19)	0	5 TMS/ WEEK	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	15 DAILY AV	40 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	17.77	******	(26)	******	0.5156	4.7100	(19)	0	5 TMS/ WEEK	COMPOS
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	5,764	(78)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	12042 2HR PEAK	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.77	******	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	7.25 ANN AVG	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	5.14	6.83	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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PARIS, TEXAS 75461-9037

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	05	01	TO	23	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**7.3**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.77**	******	**7.33**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**251.81**	******	(26)	******	**7.10**	**15.20**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**4.45**	******	(26)	******	**0.1393**	**0.5810**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**4,236**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.76**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**4.20**	**5.95**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	23	06	01	TO	23	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.8**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.81**	******	**7.53**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**202.83**	******	(26)	******	**5.98**	**15.60**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**5.07**	******	(26)	******	**0.1523**	**0.4000**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,889**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.80**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.86**	**5.00**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	23	07	01	TO	23	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.9**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.82**	******	**7.44**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**183.97**	******	(26)	******	**4.91**	**8.00**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**22.29**	******	(26)	******	**0.6681**	**2.9000**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**4,444**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.98**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**4.37**	**5.70**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	08	01	TO	23	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.3**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.80**	******	**7.41**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**83.73**	******	(26)	******	**3.83**	**5.60**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**8.63**	******	(26)	******	**0.3764**	**1.6700**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,194**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.98**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**2.57**	**4.21**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	23	09	01	TO	23	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.9**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.09**	******	**7.15**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**88.49**	******	(26)	******	**4.34**	**6.40**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**2.05**	******	(26)	******	**0.1001**	**0.1010**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**2,917**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.98**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**2.48**	**3.86**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	10	01		23	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	7.3	******	******	(19) MG/L	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******			5 TMS/ WEEK	GRAB
pH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	6.56	******	7.19	(12) SU	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM			5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	129.29	******	(26) LBS/DAY	******	4.87	9.60	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PREMIT REQUIREMENT	DAILY AV	******		******	15 DAILY AV	40 DAILY MX			5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N) 0610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.53	******	(26) LBS/DAY	******	0.1000	0.1000	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PERMIT REQUIREMENT	DAILY AV	******		******	2 DAILY AV	10 DAILY MX			5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 P 0 0 SEE COMENTS BELOW	SAMPLE MEASUREMENT	******	4,514	(78) GPM	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	******	12042 2HR PEAK		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 Y 0 0 ANNUAL AVERAGE	SAMPLE MEASUREMENT	4.01	******	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	7.25 ANN AVG	******		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.01	4.93	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX		******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	23	11	01	TO	23	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**7.8**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.11**	******	**7.27**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**165.52**	******	(26)	******	**7.47**	**16.00**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**2.43**	******	(26)	******	**0.1099**	**0.3170**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,889**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.97**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.00**	**4.10**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	23	12	01	TO	23	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**7.7**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.32**	******	**7.14**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**224.53**	******	(26)	******	**8.17**	**12.80**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**2.83**	******	(26)	******	**0.1038**	**0.1690**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,056**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.91**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.33**	**4.28**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	24	01	01	TO	24	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	8.4	******	******	(19)	0	6/DAY	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	6.44	******	7.10	(12)	0	6/DAY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	279.46	******	(26)	******	8.49	12.80	(19)	0	5 TMS/ WEEK	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	15 DAILY AV	40 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	4.47	******	(26)	******	0.1361	0.5530	(19)	0	5 TMS/ WEEK	COMPOS
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	5,000	(78)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	12042 2HR PEAK	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.92	******	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	7.25 ANN AVG	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.84	5.49	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	24	02	01	TO	24	02	29
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**8.1**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.68**	******	**7.16**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**332.19**	******	(26)	******	**9.98**	**13.20**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**7.13**	******	(26)	******	**0.2167**	**1.3100**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,472**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.82**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**4.00**	**4.37**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

Form Approved.
OMB No. 2040-0004

F- FINAL
DOMESTIC FACILITY-OUTFALL 001
*** **NO DISCHARGE** ☐ ***
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MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	24	03	01	TO	24	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE	MAXIMUM	UNITS	(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	8.1	******	******	(19) MG/L	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******			5 TMS/ WEEK	GRAB
pH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******	****	6.71	******	7.12	(12) SU	0	6/DAY	GRAB
	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM			5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1,648.67	******	(26) LBS/DAY	******	26.15	319.20	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PREMIT REQUIREMENT	DAILY AV	******		******	15 DAILY AV	40 DAILY MX			5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N) 0610 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	17.53	******	(26) LBS/DAY	******	0.3804	2.0400	(19) MG/L	0	5 TMS/ WEEK	COMPOS
	PERMIT REQUIREMENT	DAILY AV	******		******	2 DAILY AV	10 DAILY MX			5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 P 0 0 SEE COMENTS BELOW	SAMPLE MEASUREMENT	******	7,500	(78) GPM	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	******	12042 2HR PEAK		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 Y 0 0 ANNUAL AVERAGE	SAMPLE MEASUREMENT	3.80	******	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	7.25 ANN AVG	******		******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	5.83	8.65	(03) MGD	******	******	******	****	0	CONTIN-UOUS	TOTALZ
	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX		******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

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OMB No. 2040-0004

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DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE ☐ ***

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MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	24	04	01	TO	24	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	7.8	******	******	(19)	0	6/DAY	GRAB
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MO MIN	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	6.72	******	7.22	(12)	0	6/DAY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	MAXIMUM	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	478.04	******	(26)	******	9.98	24.00	(19)	0	5 TMS/ WEEK	COMPOS
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	15 DAILY AV	40 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	26.81	******	(26)	******	0.5199	2.8500	(19)	0	5 TMS/ WEEK	COMPOS
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	5,972	(78)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	12042 2HR PEAK	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.83	******	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	7.25 ANN AVG	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	5.52	7.98	(03)	******	******	******	****	0	CONTIN-UOUS	TOTALZ
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

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MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	24	05	01	TO	24	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**7.3**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.85**	******	**7.50**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**388.64**	******	(26)	******	**9.55**	**18.00**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**23.67**	******	(26)	******	**0.6003**	**3.1900**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**5,486**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.90**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**4.99**	**6.44**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.
OMB No. 2040-0004

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(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD	YEA	MO	DAY		YEA	MO	DAY
FROM / TO	24	06	01	TO	24	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.9**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.41**	******	**7.80**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**765.39**	******	(26)	******	**18.11**	**52.00**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**23.75**	******	(26)	******	**0.6059**	**2.3800**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**5,903**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.98**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**4.77**	**7.65**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

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Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

Form Approved.

OMB No. 2040-0004

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	24	07	01	TO	24	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.5**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.21**	******	**7.17**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**199.01**	******	(26)	******	**6.87**	**13.60**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**30.35**	******	(26)	******	**1.0511**	**2.3500**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**3,264**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.90**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.46**	**4.16**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMF

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** **PERMIT NUMBER**

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** ☐ ***

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MONITORING PERIOD

	YEA	MO	DAY		YEA	MO	DAY
FROM	24	08	01	TO	24	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	******	******	****	**6.0**	******	******	(19)	**0**	**6/DAY**	**GRAB**
00300 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	**MO MIN**	******	******	MG/L		5 TMS/ WEEK	GRAB
pH	SAMPLE MEASUREMENT	******	******	****	**6.35**	******	**7.22**	(12)	**0**	**6/DAY**	**GRAB**
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	****	MINIMUM	******	**MAXIMUM**	SU		5 TMS/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**201.30**	******	(26)	******	**10.42**	**23.60**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
00530 1 0 0 EFFLUENT GROSS VALUE	PREMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	**15 DAILY AV**	**40 DAILY MX**	MG/L		5 TMS/ WEEK	COMPOS
NITROGEN, AMMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	**17.21**	******	(26)	******	**0.7192**	**2.8000**	(19)	**0**	**5 TMS/ WEEK**	**COMPOS**
0610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	**DAILY AV**	******	LBS/DAY	******	2 DAILY AV	10 DAILY MX	MG/L		5 TMS/ WEEK	COMPOS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	******	**2,431**	(78)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 P 0 0 SEE COMENTS BELOW	PERMIT REQUIREMENT	******	**12042 2HR PEAK**	GPM	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**3.92**	******	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 Y 0 0 ANNUAL AVERAGE	PERMIT REQUIREMENT	**7.25 ANN AVG**	******	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	**2.79**	**4.67**	(03)	******	******	******	****	**0**	**CONTIN-UOUS**	**TOTALZ**
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT DAILY AVG	REPORT DAILY MX	MGD	******	******	******	****		CONTIN-UOUS	TOTALZ

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001
*** **NO DISCHARGE** [ ] ***
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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	22	08	01		22	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.04**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.08**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**3.28**	**24**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**86.61**	******	(26)		2 **4.2**	**9.60**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 1					
	PERMIT REQUIREMENT					3 2		2			
	SAMPLE MEASUREMENT					6		4 2			
	PERMIT REQUIREMENT							2 6			
	SAMPLE MEASUREMENT							2 2			
	PERMIT REQUIREMENT							1 3 2			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

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F- FINAL

DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	22	09	01		22	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.59**	**7**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**56.09**	******	(26)		2 **2.8**	**7.70**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					1 3					
	PERMIT REQUIREMENT					2 6		4			
	SAMPLE MEASUREMENT					3		2 2			
	PERMIT REQUIREMENT							6 2			
	SAMPLE MEASUREMENT							2 1			
	PERMIT REQUIREMENT							3 2 6			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	22	10	01		22	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.04**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**2.73**	**19**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**45.47**	******	(26)		6 **2.1**	**2.50**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					3 2					
	PERMIT REQUIREMENT					6 3		2			
	SAMPLE MEASUREMENT					2		2 6			
	PERMIT REQUIREMENT							2 2			
	SAMPLE MEASUREMENT							1 3			
	PERMIT REQUIREMENT							2 6 3			

2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	22	11	01	TO	22	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.04**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.07**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.40**	**18**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**58.36**	******	(26)		2 **2.0**	**2.70**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 6		2			
	PERMIT REQUIREMENT					3 2					
	SAMPLE MEASUREMENT					7		6 2			
	PERMIT REQUIREMENT							2 1			
	SAMPLE MEASUREMENT							3 2			
	PERMIT REQUIREMENT							6 3 2			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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Location **PARIS**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	22	12	01		22	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.06**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** -	******	**1.35**	**4**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**71.95**	******	(26)		2 **2.1**	**4.00**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					6 3					
	PERMIT REQUIREMENT					2 7		6			
	SAMPLE MEASUREMENT					2		2 2			
	PERMIT REQUIREMENT							1 3			
	SAMPLE MEASUREMENT							2 6			
	PERMIT REQUIREMENT							3 2 7			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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PARIS, TEXAS 75461-9037

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DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	23	01	01	TO	23	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.06**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**2.52**	**41**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**73.66**	******	(26)		1 **2.3**	**5.60**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					3 2					
	PERMIT REQUIREMENT					7 2		2			
	SAMPLE MEASUREMENT					2		2 1			
	PERMIT REQUIREMENT							3 2			
	SAMPLE MEASUREMENT							6 3			
	PERMIT REQUIREMENT							2 7			

2

2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

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Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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(17-19) **001 A** DISCHARGE NUMBER

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*** NO DISCHARGE [ ] ***

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	02	01		23	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.05**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.50**	**4**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**89.40**	******	(26)		3 **2.0**	**2.50**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 7					
	PERMIT REQUIREMENT					2 2		2			
	SAMPLE MEASUREMENT					1		1 3			
	PERMIT REQUIREMENT							2 6			
	SAMPLE MEASUREMENT							3 2			
	PERMIT REQUIREMENT							7 2 2			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	23	03	01	TO	23	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	**0**	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	**0**	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.57**	**7**		**0**	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**102.82**	******	(26)		2 **2.1**	**2.80**	(19)	**0**	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					7 2					
	PERMIT REQUIREMENT					2 1		1			
	SAMPLE MEASUREMENT					2		3 2			
	PERMIT REQUIREMENT							6 3			
	SAMPLE MEASUREMENT							2 7			
	PERMIT REQUIREMENT							2 2 1			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	04	01	TO	23	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.16**	**3**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**104.21**	******	(26)		6 **2.5**	**6.00**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 2					
	PERMIT REQUIREMENT					1 2		3			
	SAMPLE MEASUREMENT					2		2 6			
	PERMIT REQUIREMENT							3 2			
	SAMPLE MEASUREMENT							7 2			
	PERMIT REQUIREMENT							2 1 2			

2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	05	01		23	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**2.08**	**16**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**75.92**	******	(26)		3 **2.2**	**3.50**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 1					
	PERMIT REQUIREMENT					2 2		2			
	SAMPLE MEASUREMENT					3		6 3			
	PERMIT REQUIREMENT							2 7			
	SAMPLE MEASUREMENT							2 2			
	PERMIT REQUIREMENT							1 2			

2

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	06	01		23	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.01**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.68**	**9**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**65.25**	******	(26)		2 **2.0**	**2.20**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					1 2					
	PERMIT REQUIREMENT					2 3		6			
	SAMPLE MEASUREMENT					4		3 2			
	PERMIT REQUIREMENT							7 2			
	SAMPLE MEASUREMENT							2 1			
	PERMIT REQUIREMENT							2 2			

3

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	23	07	01	TO	23	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**2.42**	**46**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**78.96**	******	(26)		7 **2.2**	**3.30**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 2					
	PERMIT REQUIREMENT					3 4		3			
	SAMPLE MEASUREMENT					9		2 7			
	PERMIT REQUIREMENT							2 2			
	SAMPLE MEASUREMENT							1 2			
	PERMIT REQUIREMENT							2 3 4			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**
Address **P.O. BOX 9037**
PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**
Location **PARIS**
Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL
DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	08	01		23	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** -	******	**1.80**	**18**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**43.39**	******	(26)		2 **2.0**	**2.30**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					2 3					
	PERMIT REQUIREMENT					4 9		2			
	SAMPLE MEASUREMENT					8		7 2			
	PERMIT REQUIREMENT							2 1			
	SAMPLE MEASUREMENT							2 2			
	PERMIT REQUIREMENT							3 4			

9

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	23	09	01	TO	23	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.03**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.56**	**5**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**49.99**	******	(26)		2 **2.4**	**5.10**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					3 4					
	PERMIT REQUIREMENT					9 8		7			
	SAMPLE MEASUREMENT					32		2 2			
	PERMIT REQUIREMENT							1 2			
	SAMPLE MEASUREMENT							2 3			
	PERMIT REQUIREMENT							4 9 8			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** NO DISCHARGE [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	10	01	TO	23	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.99**	**63**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**64.06**	******	(26)		1 **2.6**	**6.30**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					4 9					
	PERMIT REQUIREMENT					8 32		2			
	SAMPLE MEASUREMENT					9		2 1			
	PERMIT REQUIREMENT							2 2			
	SAMPLE MEASUREMENT							3 4			
	PERMIT REQUIREMENT							9 8			

32

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	23	11	01		23	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.08**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.69**	**8**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**51.48**	******	(26)		2 **2.1**	**3.60**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					9 8					
	PERMIT REQUIREMENT					32 9		2			
	SAMPLE MEASUREMENT							1 2			
	PERMIT REQUIREMENT							2 3			
	SAMPLE MEASUREMENT							4 9			
	PERMIT REQUIREMENT							8 32 9			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	23	12	01	TO	23	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	**0**	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.16**	******	******	(19)	**0**	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.57**	**9**		**0**	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**59.51**	******	(26)		2 **2.2**	**3.50**	(19)	**0**	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					8 32					
	PERMIT REQUIREMENT					9		1			
	SAMPLE MEASUREMENT							2 2			
	PERMIT REQUIREMENT							3 4			
	SAMPLE MEASUREMENT							9 8			
	PERMIT REQUIREMENT							32 9			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	24	01	01		24	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.03**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.25**	**3**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**65.70**	******	(26)		3 **2.0**	**2.50**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					32 9					
	PERMIT REQUIREMENT							2			
	SAMPLE MEASUREMENT							2 3			
	PERMIT REQUIREMENT							4 9			
	SAMPLE MEASUREMENT							8 32			
	PERMIT REQUIREMENT							9			

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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(17-19) **001 A** DISCHARGE NUMBER

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DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

NOTE: Read instructions before completing this form

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	24	02	01		24	02	29
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.63**	**6**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**67.23**	******	(26)		4 **2.0**	**2.30**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT					9					
	PERMIT REQUIREMENT							2			
	SAMPLE MEASUREMENT							3 4			
	PERMIT REQUIREMENT							9 8			
	SAMPLE MEASUREMENT							32 9			
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

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PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

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(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

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DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	24	03	01	TO	24	03	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.01**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.66**	**9**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**122.58**	******	(26)		9 **2.4**	**4.10**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							3			
	SAMPLE MEASUREMENT							4 9			
	PERMIT REQUIREMENT							8 32			
	SAMPLE MEASUREMENT							9			
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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Facility **CITY OF PARIS WWTP**

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	24	04	01	TO	24	04	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**1.90**	**10**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**108.27**	******	(26)		8 **2.3**	**6.00**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							4			
	SAMPLE MEASUREMENT							9 8			
	PERMIT REQUIREMENT							32 9			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

Name **CITY OF PARIS**

Address **P.O. BOX 9037**

PARIS, TEXAS 75461-9037

Facility **CITY OF PARIS WWTP**

Location **PARIS**

Attn: **Doug Harris, Utilities Director**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved.

OMB No. 2040-0004

(2-16) **TX0027910** PERMIT NUMBER

(17-19) **001 A** DISCHARGE NUMBER

MAJOR

F- FINAL

DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	24	05	01	TO	24	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.06**	(19)	**0**	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	**0**	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**2.04**	**24**		**0**	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**92.94**	******	(26)		32 **2.3**	**5.00**	(19)	**0**	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							9			
	SAMPLE MEASUREMENT							8 32			
	PERMIT REQUIREMENT							9			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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DOMESTIC FACILITY-OUTFALL 001

*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	24	06	01	TO	24	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.07**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.02**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**5.17**	**38**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**109.63**	******	(26)		9 **2.7**	**5.20**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							8			
	SAMPLE MEASUREMENT							32 9			
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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DOMESTIC FACILITY-OUTFALL 001

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MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	24	07	01	TO	24	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.05**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.04**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** -	******	**3.49**	**57**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100m L		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**65.82**	******	(26)		**2.3**	**3.80**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							32			
	SAMPLE MEASUREMENT							9			
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

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*** **NO DISCHARGE** [ ] ***

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MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM / TO	24	08	01	TO	24	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
Chlorine, total residua	SAMPLE MEASUREMENT	******	******	****	******	******	**0.04**	(19)	0	6/DAY	GRAB
50060 A 0 0 Disinfection, Process Complet	PERMIT REQUIREMENT	******	******	****	******	******	.1 INST MX	mg/L		DAILY	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	***** *	**1.00**	******	******	(19)	0	6/DAY	GRAB
50060 B 0 0 Prior to Disinfection	PERMIT REQUIREMENT	******	******	*****	1.0 MO MIN	******	******	mg/L		DAILY	GRAB
E. coli	SAMPLE MEASUREMENT	******	******	***** *	******	**10.63**	**211**		0	3 Per Week	GRAB
51040 10 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	126 GEO MEAN	394 DAILY MX	CFU/100mL		3 Per Week	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	**67.58**	******	(26)		**3.4**	**7.30**	(19)	0	5 Per Week	/COMPOS
80082 1 0 0 Effluent Gross	PERMIT REQUIREMENT	DAILY AV	******	LBS/DAY		10 DAILY AV	25 DAILY MX	mg/L		5 Per Week	/COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							9			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

ANALYTICAL REPORT

June 11, 2024

City of Paris

Sample Delivery Group:	L1736414
Samples Received:	05/15/2024
Project Number:	
Description:	Influent - Wastewater Treatment Plant

Report To: Kenda Fortner
PO Box 9037
Paris, TX 75461

Entire Report Reviewed By:

Katie Ingram
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

INFLUENT L1736414-01 WW

Collected by: BRAD SULSAR | Collected date/time: 05/14/24 20:00 | Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 420.1	WG2288224	1	05/17/24 10:17	05/17/24 17:41	KCM	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2287485	1	05/16/24 10:00	05/16/24 17:06	KCM	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2287485	1	05/16/24 17:06	05/16/24 17:06	KCM	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2288640	1	05/17/24 16:05	05/17/24 16:05	ZST	Allen, TX

INFLUENT L1736414-02 WW

Collected by: BRAD SULSAR | Collected date/time: 05/14/24 22:00 | Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2287580	1	05/17/24 13:22	05/17/24 13:22	NA	Allen, TX
Calculated Results	WG2289917	1	05/20/24 15:40	05/20/24 15:40	EIG	Allen, TX
Gravimetric Analysis by Method 2540C	WG2287066	1	05/15/24 15:22	05/15/24 16:30	QQT	Allen, TX
Wet Chemistry by Method 300.0	WG2288996	1	05/19/24 05:42	05/19/24 05:42	GEB	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr-B	WG2286601	1	05/15/24 15:09	05/15/24 15:09	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2288271	5	05/17/24 10:58	05/18/24 13:57	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2287044	1	05/15/24 18:16	05/15/24 18:16	EIG	Allen, TX
Wet Chemistry by Method EPA 625.1 Screen	WG2292810	1	05/21/24 15:18	05/21/24 15:18	XLY	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2290630	5	05/21/24 20:04	05/21/24 20:04	EIG	Allen, TX
Metals (ICPMS) by Method 200.8	WG2287580	1	05/16/24 11:14	05/17/24 13:22	NA	Allen, TX
Metals (ICPMS) by Method 200.8	WG2287580	1	05/16/24 11:14	05/20/24 20:08	NA	Allen, TX
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2289670	1	05/20/24 10:13	05/21/24 15:18	XLY	Allen, TX
Subcontracted Analyses	WG2288495	1	06/04/24 00:00	06/04/24 00:00	JWW	Subcontract
Subcontracted Analyses	WG2288501	1	06/01/24 00:00	06/01/24 00:00	JWW	Green Bay, WI 54302

INFLUENT L1736414-03 WW

Collected by: BRAD SULSAR | Collected date/time: 05/15/24 07:30 | Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2288501	1	06/01/24 00:00	06/01/24 00:00	JWW	Green Bay, WI 54302

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

Project Narrative

L1736414 -02, -03 contains subout data that is included after the chain of custody.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1736414-02	INFLUENT	3500Cr-B

Wet Chemistry by Method 420.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Phenols by 4AAP	0.0185		0.0100	1	05/17/2024 17:41	WG2288224

Wet Chemistry by Method 4500CN-E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	05/16/2024 17:06	WG2287485

Wet Chemistry by Method 4500CN-G

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide,amenable	ND		0.0100	1	05/16/2024 17:06	WG2287485

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,1,2,2-Tetrachloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,1,2-Trichloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,1-Dichloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,1-Dichloroethene	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,2-Dibromoethane	ND		0.00200	1	05/17/2024 16:05	WG2288640
1,2-Dichlorobenzene	ND		0.00200	1	05/17/2024 16:05	WG2288640
1,2-Dichloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,2-Dichloropropane	ND		0.00200	1	05/17/2024 16:05	WG2288640
1,3-Dichlorobenzene	ND		0.00500	1	05/17/2024 16:05	WG2288640
1,4-Dichlorobenzene	ND		0.00200	1	05/17/2024 16:05	WG2288640
2-Butanone (MEK)	ND	J5	0.0250	1	05/17/2024 16:05	WG2288640
2-Chloroethyl vinyl ether	ND		0.0100	1	05/17/2024 16:05	WG2288640
Acetone	0.113		0.0500	1	05/17/2024 16:05	WG2288640
Acrolein	ND		0.0100	1	05/17/2024 16:05	WG2288640
Acrylonitrile	ND		0.0100	1	05/17/2024 16:05	WG2288640
Benzene	ND		0.00500	1	05/17/2024 16:05	WG2288640
Bromodichloromethane	ND		0.00200	1	05/17/2024 16:05	WG2288640
Bromoform	ND		0.0100	1	05/17/2024 16:05	WG2288640
Bromomethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
Carbon tetrachloride	ND		0.00200	1	05/17/2024 16:05	WG2288640
Chlorobenzene	ND		0.0100	1	05/17/2024 16:05	WG2288640
Chloroethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
Chloroform	0.00507		0.00500	1	05/17/2024 16:05	WG2288640
Chloromethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
cis-1,3-Dichloropropene	ND		0.0100	1	05/17/2024 16:05	WG2288640
Dibromochloromethane	ND		0.00500	1	05/17/2024 16:05	WG2288640
Ethylbenzene	ND		0.00200	1	05/17/2024 16:05	WG2288640
Isopropyl acetate	ND		0.00500	1	05/17/2024 16:05	WG2288640
m&p-Xylene	ND		0.00400	1	05/17/2024 16:05	WG2288640
Methyl tert-butyl ether	ND		0.00500	1	05/17/2024 16:05	WG2288640
Methylene Chloride	ND		0.0200	1	05/17/2024 16:05	WG2288640
Naphthalene	ND		0.0100	1	05/17/2024 16:05	WG2288640
Tetrachloroethene	ND		0.0100	1	05/17/2024 16:05	WG2288640
Toluene	ND		0.00500	1	05/17/2024 16:05	WG2288640
Total 1,3-Dichloropropene	ND		0.0100	1	05/17/2024 16:05	WG2288640
Total Trihalomethanes	0.00507		0.00500	1	05/17/2024 16:05	WG2288640
trans-1,2-Dichloroethene	ND		0.0100	1	05/17/2024 16:05	WG2288640
trans-1,3-Dichloropropene	ND		0.00500	1	05/17/2024 16:05	WG2288640

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Trichloroethene	ND		0.00500	1	05/17/2024 16:05	WG2288640
Trichlorofluoromethane	ND		0.0100	1	05/17/2024 16:05	WG2288640
Vinyl chloride	ND		0.00500	1	05/17/2024 16:05	WG2288640
Xylenes, Total	ND		0.00600	1	05/17/2024 16:05	WG2288640
(S) 1,2-Dichloroethane-d4	*100*		*70.0-130*		*05/17/2024 16:05*	WG2288640
(S) 4-Bromofluorobenzene	*99.4*		*70.0-130*		*05/17/2024 16:05*	WG2288640
(S) Toluene-d8	*99.2*		*70.0-130*		*05/17/2024 16:05*	WG2288640

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium,Trivalent	ND	J	0.00300	1	05/17/2024 13:22	WG2287580
Nitrogen	23.0		0.0500	1	05/20/2024 15:40	WG2289917

Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	393		25.0	1	05/15/2024 16:30	WG2287066

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	37.7		1.00	1	05/19/2024 05:42	WG2288996
Fluoride	0.398		0.150	1	05/19/2024 05:42	WG2288996
Sulfate	96.5	J6	5.00	1	05/19/2024 05:42	WG2288996

Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		0.00300	1	05/15/2024 15:09	WG2286601

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	23.0		1.25	5	05/18/2024 13:57	WG2288271

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		0.0500	1	05/15/2024 18:16	WG2287044
Nitrate	ND		0.0500	1	05/15/2024 18:16	WG2287044
Nitrite	ND		0.0500	1	05/15/2024 18:16	WG2287044

Wet Chemistry by Method EPA 625.1 Screen

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
2,3,7,8-TCDD	Absent			1	05/21/2024 15:18	WG2292810

Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	13.1		0.500	5	05/21/2024 20:04	WG2290630

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.740		0.00250	1	05/20/2024 20:08	WG2287580
Antimony	ND		0.00500	1	05/17/2024 13:22	WG2287580
Arsenic	0.00195	B	0.000500	1	05/17/2024 13:22	WG2287580
Barium	0.0683		0.00300	1	05/17/2024 13:22	WG2287580
Beryllium	ND		0.000500	1	05/17/2024 13:22	WG2287580
Cadmium	ND		0.00100	1	05/20/2024 20:08	WG2287580
Chromium	ND		0.00300	1	05/17/2024 13:22	WG2287580

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Copper	0.0147		0.00200	1	05/17/2024 13:22	WG2287580
Lead	0.00165		0.000500	1	05/17/2024 13:22	WG2287580
Molybdenum	ND		0.00100	1	05/17/2024 13:22	WG2287580
Nickel	0.0106		0.00200	1	05/17/2024 13:22	WG2287580
Selenium	ND		0.00500	1	05/17/2024 13:22	WG2287580
Silver	ND		0.000500	1	05/17/2024 13:22	WG2287580
Thallium	ND		0.000500	1	05/17/2024 13:22	WG2287580
Zinc	0.0667		0.00500	1	05/17/2024 13:22	WG2287580

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
1,2,4-Trichlorobenzene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
1,2-Dichlorobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
1,3-Dichlorobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
1,4-Dichlorobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
2,2-Oxybis(1-Chloropropane)	ND		0.00250	1	05/21/2024 15:18	WG2289670
2,4,5-Trichlorophenol	ND	J3	0.00250	1	05/21/2024 15:18	WG2289670
2,4,6-Trichlorophenol	ND		0.00250	1	05/21/2024 15:18	WG2289670
2,4-Dichlorophenol	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
2,4-Dimethylphenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
2,4-Dinitrophenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
2,4-Dinitrotoluene	ND		0.00500	1	05/21/2024 15:18	WG2289670
2,6-Dichlorophenol	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
2,6-Dinitrotoluene	ND		0.00500	1	05/21/2024 15:18	WG2289670
2-Chloronaphthalene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
2-Chlorophenol	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
2-Methylphenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
2-Nitrophenol	ND		0.00250	1	05/21/2024 15:18	WG2289670
3&4-Methyl Phenol	ND		0.00250	1	05/21/2024 15:18	WG2289670
3,3-Dichlorobenzidine	ND		0.00500	1	05/21/2024 15:18	WG2289670
4,6-Dinitro-2-methylphenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
4-Bromophenyl-phenylether	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
4-Chloro-3-methylphenol	ND		0.00250	1	05/21/2024 15:18	WG2289670
4-Chlorophenyl-phenylether	ND		0.00250	1	05/21/2024 15:18	WG2289670
4-Nitrophenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
Acenaphthene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
Acenaphthylene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Acetophenone	ND		0.00250	1	05/21/2024 15:18	WG2289670
Alpha-Terpineol	ND		0.00250	1	05/21/2024 15:18	WG2289670
Aniline	ND		0.00250	1	05/21/2024 15:18	WG2289670
Anthracene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Atrazine	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzidine	ND	J6	0.0100	1	05/21/2024 15:18	WG2289670
Benzo(a)anthracene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzo(a)pyrene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzo(b)fluoranthene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzo(g,h,i)perylene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzo(k)fluoranthene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Benzoic acid	ND		0.0100	1	05/21/2024 15:18	WG2289670
Benzylbutyl phthalate	ND		0.00250	1	05/21/2024 15:18	WG2289670
Bis(2-chlorethoxy)methane	ND		0.00250	1	05/21/2024 15:18	WG2289670
Bis(2-chloroethyl)ether	ND		0.00250	1	05/21/2024 15:18	WG2289670
Bis(2-chloroisopropyl)ether	ND		0.00250	1	05/21/2024 15:18	WG2289670
Bis(2-Ethylhexyl)phthalate	ND		0.00500	1	05/21/2024 15:18	WG2289670

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Carbazole	ND		0.00250	1	05/21/2024 15:18	WG2289670
Chrysene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Di-n-butyl phthalate	ND		0.00250	1	05/21/2024 15:18	WG2289670
Di-n-octyl phthalate	ND		0.00250	1	05/21/2024 15:18	WG2289670
Dibenz(a,h)anthracene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Dibenzofuran	ND		0.00250	1	05/21/2024 15:18	WG2289670
Diethyl phthalate	ND		0.00250	1	05/21/2024 15:18	WG2289670
Dimethyl phthalate	ND		0.00250	1	05/21/2024 15:18	WG2289670
Fluoranthene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Fluorene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
Hexachloro-1,3-butadiene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Hexachlorobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Hexachlorocyclopentadiene	ND	J3	0.0100	1	05/21/2024 15:18	WG2289670
Hexachloroethane	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
1,2-Diphenylhydrazine	ND	N2	0.00250	1	05/21/2024 15:18	WG2289670
Indeno(1,2,3-cd)pyrene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Isophorone	ND		0.00250	1	05/21/2024 15:18	WG2289670
n-Decane	ND		0.00250	1	05/21/2024 15:18	WG2289670
n-Nitrosodi-n-butylamine	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
n-Nitrosodi-n-propylamine	ND		0.00250	1	05/21/2024 15:18	WG2289670
n-Nitrosodiethylamine	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
n-Nitrosodimethylamine	ND		0.00250	1	05/21/2024 15:18	WG2289670
n-Nitrosodiphenylamine	ND		0.00250	1	05/21/2024 15:18	WG2289670
n-Octadecane	ND	J3	0.00250	1	05/21/2024 15:18	WG2289670
Naphthalene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Nitrobenzene	ND		0.00250	1	05/21/2024 15:18	WG2289670
Nonylphenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
Pentachlorobenzene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
Pentachlorophenol	ND		0.00500	1	05/21/2024 15:18	WG2289670
Phenanthrene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
Phenol	ND		0.00250	1	05/21/2024 15:18	WG2289670
Pyrene	ND	J6	0.00250	1	05/21/2024 15:18	WG2289670
Pyridine	ND	J3 J6	0.00250	1	05/21/2024 15:18	WG2289670
Total Cresols	ND		0.00750	1	05/21/2024 15:18	WG2289670
(S) 2,4,6-Tribromophenol	*48.0*		*29.0-132*		*05/21/2024 15:18*	WG2289670
(S) 2-Fluorobiphenyl	*70.5*		*26.0-102*		*05/21/2024 15:18*	WG2289670
(S) 2-Fluorophenol	*16.4*		*10.0-66.0*		*05/21/2024 15:18*	WG2289670
(S) Nitrobenzene-d5	*64.9*		*15.0-106*		*05/21/2024 15:18*	WG2289670
(S) p-Terphenyl-d14	*60.2*		*10.0-120*		*05/21/2024 15:18*	WG2289670
(S) Phenol-D6	*12.8*		*10.0-54.0*		*05/21/2024 15:18*	WG2289670

Method Blank (MB)

(MB) R4070401-1 05/15/24 16:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	U		25.0	25.0

L1736195-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736195-01 05/15/24 16:30 • (DUP) R4070401-3 05/15/24 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	848	828	1	2.39		10

L1736197-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736197-01 05/15/24 16:30 • (DUP) R4070401-4 05/15/24 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	2620	3670	1	33.6	J3	10

Laboratory Control Sample (LCS)

(LCS) R4070401-2 05/15/24 16:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2590	108	85.0-115	

Method Blank (MB)

(MB) R4072159-1 05/18/24 14:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1736378-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736378-01 05/19/24 04:23 • (DUP) R4072159-3 05/19/24 04:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	62.6	62.8	1	0.338		15
Fluoride	2.24	2.13	1	5.07		15
Sulfate	173	175	1	0.721		15

L1736414-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1736414-02 05/19/24 05:42 • (DUP) R4072159-6 05/19/24 05:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	37.7	37.6	1	0.448		15
Fluoride	0.398	0.398	1	0.0251		15
Sulfate	96.5	96.3	1	0.210		15

Laboratory Control Sample (LCS)

(LCS) R4072159-2 05/18/24 14:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.5	96.2	90.0-110	
Fluoride	8.00	7.99	99.9	90.0-110	
Sulfate	40.0	37.4	93.5	90.0-110	

L1736378-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736378-01 05/19/24 04:23 • (MS) R4072159-4 05/19/24 04:54 • (MSD) R4072159-5 05/19/24 05:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	62.6	90.9	91.2	70.9	71.4	1	80.0-120	J6	J6	0.244	15
Fluoride	8.00	2.24	9.82	9.85	94.7	95.1	1	80.0-120			0.289	15
Sulfate	40.0	173	185	185	29.8	30.3	1	80.0-120	V	V	0.0914	15

Sample Narrative:

MS: Spike failure due to matrix interference

MSD: Spike failure due to matrix interference

L1736414-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1736414-02 05/19/24 05:42 • (MS) R4072159-7 05/19/24 06:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	37.7	70.9	83.0	1	80.0-120	
Fluoride	8.00	0.398	8.62	103	1	80.0-120	
Sulfate	40.0	96.5	119	56.3	1	80.0-120	J6

Method Blank (MB)

(MB) R4069997-1 05/15/24 15:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	U		0.00200	0.00300

Laboratory Control Sample (LCS)

(LCS) R4069997-2 05/15/24 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.200	0.200	99.8	85.0-115	

L1735660-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735660-01 05/15/24 15:09 • (MS) R4069997-3 05/15/24 15:09 • (MSD) R4069997-4 05/15/24 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.200	ND	0.157	0.154	78.4	77.1	1	10.0-120			1.68	20

Sample Narrative:

OS: Sample preserved in lab w/in 24 hrs of collection

L1735982-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735982-02 05/15/24 15:09 • (MS) R4069997-5 05/15/24 15:09 • (MSD) R4069997-6 05/15/24 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.200	ND	0.187	0.188	93.3	94.1	1	10.0-120			0.930	20

Sample Narrative:

OS: Sample preserved in lab w/in 24 hrs of collection

Method Blank (MB)

(MB) R4071774-1 05/18/24 13:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	U		0.140	0.250

Laboratory Control Sample (LCS)

(LCS) R4071774-2 05/18/24 13:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.10	103	90.0-110	

L1735789-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735789-01 05/18/24 13:23 • (MS) R4071774-3 05/18/24 13:52 • (MSD) R4071774-4 05/18/24 13:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	2.69	7.95	7.91	132	131	1	90.0-110	J5	J5	0.504	20

L1735789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735789-02 05/18/24 13:25 • (MS) R4071774-5 05/18/24 13:55 • (MSD) R4071774-6 05/18/24 13:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.724	5.19	5.76	112	126	1	90.0-110	J5	J5	10.4	20

Method Blank (MB)

(MB) R4070436-1 05/15/24 18:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0300	0.0500
Nitrite	U		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R4070436-2 05/15/24 18:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.63	105	90.0-110	
Nitrite	2.50	2.65	106	90.0-110	

L1736204-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736204-02 05/15/24 18:14 • (MS) R4070436-3 05/15/24 18:20 • (MSD) R4070436-4 05/15/24 18:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.64	2.66	106	106	1	90.0-110			0.755	20
Nitrite	2.50	ND	2.65	2.63	106	105	1	90.0-110			0.758	20

Method Blank (MB)

(MB) R4071493-1 05/17/24 17:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Phenols by 4AAP	U		0.00550	0.0100

Laboratory Control Sample (LCS)

(LCS) R4071493-2 05/17/24 17:41

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Phenols by 4AAP	0.133	0.122	92.1	80.0-120	

L1736514-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736514-04 05/17/24 17:41 • (MS) R4071493-3 05/17/24 17:41 • (MSD) R4071493-4 05/17/24 17:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Total Phenols by 4AAP	0.133	ND	0.0944	0.133	71.0	99.8	1	80.0-120	J6	J3	33.7	20

L1736514-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736514-06 05/17/24 17:41 • (MS) R4071493-5 05/17/24 17:41 • (MSD) R4071493-6 05/17/24 17:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Total Phenols by 4AAP	0.133	ND	0.109	0.109	81.9	81.9	1	80.0-120			0.000	20

Method Blank (MB)

(MB) R4070658-1 05/16/24 17:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00430	0.0100

Laboratory Control Sample (LCS)

(LCS) R4070658-2 05/16/24 17:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0930	93.0	85.0-115	

L1735878-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735878-02 05/16/24 17:06 • (MS) R4070658-3 05/16/24 17:06 • (MSD) R4070658-4 05/16/24 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	ND	ND	0.000	0.000	1	85.0-115	J6	J6	0.000	20

L1736514-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736514-08 05/16/24 17:06 • (MS) R4070658-5 05/16/24 17:06 • (MSD) R4070658-6 05/16/24 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0851	0.0792	85.1	79.2	1	85.0-115		J6	7.17	20

Method Blank (MB)

(MB) R4072439-1 05/21/24 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0280	0.100

Laboratory Control Sample (LCS)

(LCS) R4072439-2 05/21/24 19:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	5.20	104	80.0-120	

L1736299-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736299-07 05/21/24 19:59 • (MS) R4072439-3 05/21/24 19:46 • (MSD) R4072439-4 05/21/24 19:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	2.86	8.19	8.16	107	106	1	80.0-120			0.367	20

L1736417-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736417-02 05/21/24 20:36 • (MS) R4072439-5 05/21/24 19:50 • (MSD) R4072439-6 05/21/24 19:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.160	5.49	5.49	107	107	1	80.0-120			0.000	20

Method Blank (MB)

(MB) R4071519-1 05/17/24 12:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000580	0.00500
Arsenic	0.000598		0.000100	0.000500
Barium	U		0.000440	0.00300
Beryllium	0.0000610	J	0.0000600	0.000500
Chromium	U		0.000510	0.00300
Copper	U		0.000900	0.00200
Lead	U		0.000140	0.000500
Molybdenum	U		0.000530	0.00100
Nickel	U		0.000640	0.00200
Selenium	U		0.000740	0.00500
Silver	U		0.0000800	0.000500
Thallium	U		0.000190	0.000500
Zinc	U		0.00265	0.00500

Method Blank (MB)

(MB) R4072026-1 05/20/24 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	0.00619		0.00186	0.00250
Cadmium	U		0.000120	0.00100

Laboratory Control Sample (LCS)

(LCS) R4071519-2 05/17/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.100	0.0963	96.3	85.0-115	
Arsenic	0.100	0.0956	95.6	85.0-115	
Barium	0.100	0.0956	95.6	85.0-115	
Beryllium	0.100	0.0933	93.3	85.0-115	
Chromium	0.100	0.0979	97.9	85.0-115	
Copper	0.100	0.0977	97.7	85.0-115	
Lead	0.100	0.0992	99.2	85.0-115	
Molybdenum	0.100	0.0961	96.1	85.0-115	
Nickel	0.100	0.0966	96.6	85.0-115	
Selenium	0.100	0.0922	92.2	85.0-115	
Silver	0.0500	0.0487	97.5	85.0-115	
Thallium	0.100	0.0966	96.6	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R4071519-2 05/17/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Zinc	0.100	0.0972	97.2	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R4072026-2 05/20/24 19:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1.00	0.973	97.3	85.0-115	
Cadmium	0.100	0.100	100	85.0-115	

L1736026-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736026-01 05/17/24 12:31 • (MS) R4071519-3 05/17/24 12:38 • (MSD) R4071519-4 05/17/24 12:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.100	ND	0.0987	0.101	97.5	99.8	1	70.0-130			2.33	20
Arsenic	0.100	0.0164	0.113	0.117	97.1	101	1	70.0-130			3.04	20
Barium	0.100	0.449	0.566	0.577	117	128	1	70.0-130			1.86	20
Chromium	0.100	0.0244	0.121	0.124	96.7	99.2	1	70.0-130			2.01	20
Copper	0.100	0.0284	0.123	0.126	94.9	97.7	1	70.0-130			2.20	20
Lead	0.100	ND	0.0957	0.0975	95.2	97.0	1	70.0-130			1.86	20
Nickel	0.100	0.0696	0.167	0.169	97.0	99.7	1	70.0-130			1.59	20
Selenium	0.100	0.0164	0.107	0.111	91.0	94.2	1	70.0-130			3.02	20
Silver	0.0500	ND	0.0462	0.0469	92.0	93.4	1	70.0-130			1.49	20
Zinc	0.100	0.00710	0.0984	0.102	91.3	94.7	1	70.0-130			3.34	20

Method Blank (MB)

(MB) R4071566-2 05/17/24 13:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	U		0.00335	0.00500
1,1,2,2-Tetrachloroethane	U		0.000596	0.00500
1,1,2-Trichloroethane	U		0.00145	0.00500
1,1-Dichloroethane	U		0.00292	0.00500
1,1-Dichloroethene	U		0.00367	0.00500
1,2-Dibromoethane	U		0.000549	0.00200
1,2-Dichlorobenzene	U		0.00172	0.00200
1,2-Dichloroethane	U		0.00195	0.00500
1,2-Dichloropropane	U		0.000804	0.00200
1,3-Dichlorobenzene	U		0.00419	0.00500
1,4-Dichlorobenzene	U		0.00173	0.00200
2-Butanone (MEK)	U		0.00822	0.0250
2-Chloroethyl vinyl ether	U		0.00652	0.0100
Acetone	U		0.0337	0.0500
Acrolein	U		0.00544	0.0100
Acrylonitrile	U		0.00709	0.0100
Benzene	U		0.00207	0.00500
Bromodichloromethane	U		0.00179	0.00200
Bromoform	U		0.000960	0.0100
Bromomethane	U		0.00347	0.00500
Carbon tetrachloride	U		0.00159	0.00200
Chlorobenzene	U		0.00276	0.0100
Chloroethane	U		0.00296	0.00500
Chloroform	U		0.00212	0.00500
Chloromethane	U		0.00361	0.00500
cis-1,3-Dichloropropene	U		0.00492	0.0100
Dibromochloromethane	U		0.00327	0.00500
Ethylbenzene	U		0.000401	0.00200
Isopropyl acetate	U		0.00113	0.00500
m&p-Xylene	U		0.00149	0.00400
Methyl tert-butyl ether	U		0.00338	0.00500
Methylene Chloride	U		0.0118	0.0200
Naphthalene	U		0.00238	0.0100
Tetrachloroethene	U		0.00486	0.0100
Toluene	U		0.00219	0.00500
Total 1,3-Dichloropropene	U		0.00372	0.0100
Total Trihalomethanes	U		0.00338	0.00500
trans-1,2-Dichloroethene	U		0.00501	0.0100
trans-1,3-Dichloropropene	U		0.00460	0.00500
Trichloroethene	U		0.00262	0.00500

Method Blank (MB)

(MB) R4071566-2 05/17/24 13:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichlorofluoromethane	U		0.00252	0.0100
Vinyl chloride	U		0.00466	0.00500
Xylenes, Total	U		0.00342	0.00600
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*
(S) 4-Bromofluorobenzene	*100*			*70.0-130*
(S) Toluene-d8	*97.5*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4071566-1 05/17/24 13:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0200	0.0213	106	70.0-130	
1,1,2,2-Tetrachloroethane	0.0200	0.0219	110	60.0-140	
1,1,2-Trichloroethane	0.0200	0.0211	105	70.0-130	
1,1-Dichloroethane	0.0200	0.0207	104	70.0-130	
1,1-Dichloroethene	0.0200	0.0195	97.5	50.0-150	
1,2-Dibromoethane	0.0200	0.0220	110	70.0-130	
1,2-Dichlorobenzene	0.0200	0.0207	104	65.0-135	
1,2-Dichloroethane	0.0200	0.0206	103	70.0-130	
1,2-Dichloropropane	0.0200	0.0209	105	35.0-165	
1,3-Dichlorobenzene	0.0200	0.0211	105	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0203	102	65.0-135	
2-Butanone (MEK)	0.100	0.123	123	70.0-130	
2-Chloroethyl vinyl ether	0.100	0.0957	95.7	1.00-225	
Acetone	0.100	0.115	115	70.0-130	
Acrolein	0.100	0.101	101	64.0-139	
Acrylonitrile	0.100	0.112	112	67.0-136	
Benzene	0.0200	0.0210	105	65.0-135	
Bromodichloromethane	0.0200	0.0218	109	65.0-135	
Bromoform	0.0200	0.0213	106	70.0-130	
Bromomethane	0.0200	0.0181	90.5	15.0-185	
Carbon tetrachloride	0.0200	0.0215	108	70.0-130	
Chlorobenzene	0.0200	0.0203	102	65.0-135	
Chloroethane	0.0200	0.0184	92.0	40.0-160	
Chloroform	0.0200	0.0209	105	70.0-135	
Chloromethane	0.0200	0.0197	98.5	1.00-205	
cis-1,3-Dichloropropene	0.0200	0.0188	94.0	25.0-175	
Dibromochloromethane	0.0200	0.0218	109	70.0-135	

Laboratory Control Sample (LCS)

(LCS) R4071566-1 05/17/24 13:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.0200	0.0207	104	60.0-140	
Isopropyl acetate	0.0200	0.0186	93.0	70.0-130	
m&p-Xylene	0.0400	0.0413	103	70.0-130	
Methyl tert-butyl ether	0.0200	0.0209	105	70.0-130	
Methylene Chloride	0.0200	0.0202	101	60.0-140	
Naphthalene	0.0200	0.0217	109	70.0-130	
Tetrachloroethene	0.0200	0.0210	105	70.0-130	
Toluene	0.0200	0.0205	103	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0391	97.5	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0207	104	70.0-130	
trans-1,3-Dichloropropene	0.0200	0.0203	102	50.0-150	
Trichloroethene	0.0200	0.0216	108	65.0-135	
Trichlorofluoromethane	0.0200	0.0212	106	50.0-150	
Vinyl chloride	0.0200	0.0197	98.5	5.00-195	
Xylenes, Total	0.0600	0.0616	103	70.0-130	
(S) 1,2-Dichloroethane-d4			*98.3*	*70.0-130*	
(S) 4-Bromofluorobenzene			*97.6*	*70.0-130*	
(S) Toluene-d8			*99.1*	*70.0-130*	

L1736414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-01 05/17/24 16:05 • (MS) R4071566-3 05/17/24 15:15 • (MSD) R4071566-4 05/17/24 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0200	ND	0.0212	0.0210	106	105	1	52.0-162			0.948	36
1,1,2,2-Tetrachloroethane	0.0200	ND	0.0225	0.0233	113	117	1	46.0-157			3.49	61
1,1,2-Trichloroethane	0.0200	ND	0.0215	0.0210	108	105	1	52.0-150			2.35	45
1,1-Dichloroethane	0.0200	ND	0.0213	0.0208	106	104	1	59.0-155			2.38	40
1,1-Dichloroethene	0.0200	ND	0.0213	0.0201	106	101	1	1.00-234			5.80	32
1,2-Dibromoethane	0.0200	ND	0.0230	0.0226	115	113	1	70.0-130			1.75	20
1,2-Dichlorobenzene	0.0200	ND	0.0217	0.0210	109	105	1	18.0-190			3.28	57
1,2-Dichloroethane	0.0200	ND	0.0211	0.0207	105	104	1	49.0-155			1.91	49
1,2-Dichloropropane	0.0200	ND	0.0209	0.0210	105	105	1	1.00-210			0.477	55
1,3-Dichlorobenzene	0.0200	ND	0.0214	0.0203	107	102	1	59.0-156			5.28	43
1,4-Dichlorobenzene	0.0200	ND	0.0219	0.0211	110	105	1	18.0-190			3.72	57
2-Butanone (MEK)	0.100	ND	0.129	0.134	129	134	1	70.0-130		J5	3.80	20
2-Chloroethyl vinyl ether	0.100	ND	0.0839	0.0886	83.9	88.6	1	1.00-305			5.45	71
Acetone	0.100	0.113	0.218	0.224	105	111	1	70.0-130			2.71	20
Acrolein	0.100	ND	0.0178	0.0181	17.8	18.1	1	4.00-172			1.67	20

L1736414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-01 05/17/24 16:05 • (MS) R4071566-3 05/17/24 15:15 • (MSD) R4071566-4 05/17/24 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.100	ND	0.117	0.120	117	120	1	22.0-189			2.53	20
Benzene	0.0200	ND	0.0212	0.0214	106	107	1	37.0-151			0.939	61
Bromodichloromethane	0.0200	ND	0.0211	0.0214	105	107	1	35.0-155			1.41	56
Bromoform	0.0200	ND	0.0215	0.0211	108	105	1	70.0-130			1.88	42
Bromomethane	0.0200	ND	0.0127	0.0142	63.5	71.0	1	15.0-185			11.2	61
Carbon tetrachloride	0.0200	ND	0.0205	0.0205	103	103	1	70.0-140			0.000	41
Chlorobenzene	0.0200	ND	0.0209	0.0202	105	101	1	37.0-160			3.41	53
Chloroethane	0.0200	ND	0.0204	0.0200	102	100	1	14.0-230			1.98	78
Chloroform	0.0200	0.00507	0.0266	0.0263	108	106	1	51.0-138			1.13	54
Chloromethane	0.0200	ND	0.0202	0.0197	101	98.5	1	1.00-273			2.51	20
cis-1,3-Dichloropropene	0.0200	ND	0.0189	0.0187	94.5	93.5	1	1.00-227			1.06	58
Dibromochloromethane	0.0200	ND	0.0220	0.0216	110	108	1	53.0-149			1.83	50
Ethylbenzene	0.0200	ND	0.0210	0.0207	105	104	1	37.0-162			1.44	63
Isopropyl acetate	0.0200	ND	0.0194	0.0195	97.0	97.5	1	70.0-130			0.514	20
m&p-Xylene	0.0400	ND	0.0424	0.0416	106	104	1	70.0-130			1.90	20
Methyl tert-butyl ether	0.0200	ND	0.0213	0.0213	106	106	1	70.0-130			0.000	20
Methylene Chloride	0.0200	ND	0.0203	0.0200	102	100	1	1.00-221			1.49	28
Naphthalene	0.0200	ND	0.0219	0.0232	110	116	1	70.0-130			5.76	20
Tetrachloroethene	0.0200	ND	0.0218	0.0212	109	106	1	64.0-148			2.79	39
Toluene	0.0200	ND	0.0225	0.0220	113	110	1	47.0-150			2.25	41
Total 1,3-Dichloropropene	0.0401	ND	0.0390	0.0381	97.3	95.0	1	70.0-130			2.33	20
trans-1,2-Dichloroethene	0.0200	ND	0.0217	0.0203	109	102	1	54.0-156			6.67	45
trans-1,3-Dichloropropene	0.0200	ND	0.0201	0.0194	101	97.0	1	17.0-183			3.54	86
Trichloroethene	0.0200	ND	0.0221	0.0206	111	103	1	70.0-157			7.03	48
Trichlorofluoromethane	0.0200	ND	0.0216	0.0210	108	105	1	17.0-181			2.82	84
Vinyl chloride	0.0200	ND	0.0206	0.0197	103	98.5	1	1.00-251			4.47	66
Xylenes, Total	0.0600	ND	0.0634	0.0622	106	104	1	70.0-130			1.91	20
(S) 1,2-Dichloroethane-d4					*99.0*	*100*		*70.0-130*				
(S) 4-Bromofluorobenzene					*98.8*	*99.0*		*70.0-130*				
(S) Toluene-d8					*99.1*	*97.9*		*70.0-130*				

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	U		0.00132	0.00250
1,2,4-Trichlorobenzene	U		0.00159	0.00250
1,2-Dichlorobenzene	U		0.00168	0.00250
1,3-Dichlorobenzene	U		0.00170	0.00250
1,4-Dichlorobenzene	U		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	U		0.00116	0.00250
2,4,5-Trichlorophenol	U		0.00193	0.00250
2,4,6-Trichlorophenol	U		0.00179	0.00250
2,4-Dichlorophenol	U		0.000820	0.00250
2,4-Dimethylphenol	U		0.00142	0.00500
2,4-Dinitrophenol	U		0.00115	0.00500
2,4-Dinitrotoluene	U		0.00265	0.00500
2,6-Dichlorophenol	U		0.00107	0.00250
2,6-Dinitrotoluene	U		0.00181	0.00500
2-Chloronaphthalene	U		0.00143	0.00250
2-Chlorophenol	U		0.000820	0.00250
2-Methylphenol	U		0.000760	0.00500
2-Nitrophenol	U		0.00169	0.00250
3&4-Methyl Phenol	U		0.000767	0.00250
3,3-Dichlorobenzidine	U		0.00265	0.00500
4,6-Dinitro-2-methylphenol	U		0.00150	0.00500
4-Bromophenyl-phenylether	U		0.00104	0.00250
4-Chloro-3-methylphenol	U		0.000865	0.00250
4-Chlorophenyl-phenylether	U		0.00140	0.00250
4-Nitrophenol	U		0.00164	0.00500
Acenaphthene	U		0.00134	0.00250
Acenaphthylene	U		0.00134	0.00250
Acetophenone	U		0.000788	0.00250
Alpha-Terpineol	U		0.000696	0.00250
Aniline	U		0.000536	0.00250
Anthracene	U		0.00111	0.00250
Atrazine	U		0.00167	0.00250
Benzidine	U		0.00311	0.0100
Benzo(a)anthracene	U		0.000933	0.00250
Benzo(a)pyrene	U		0.000941	0.00250
Benzo(b)fluoranthene	U		0.00102	0.00250
Benzo(g,h,i)perylene	U		0.00101	0.00250
Benzo(k)fluoranthene	U		0.000934	0.00250
Benzoic acid	U		0.00657	0.0100
Benzylbutyl phthalate	U		0.00143	0.00250

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chlorethoxy)methane	U		0.000991	0.00250
Bis(2-chloroethyl)ether	U		0.00101	0.00250
Bis(2-chloroisopropyl)ether	U		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	U		0.00318	0.00500
Carbazole	U		0.00106	0.00250
Chrysene	U		0.00102	0.00250
Di-n-butyl phthalate	U		0.00120	0.00250
Di-n-octyl phthalate	U		0.00174	0.00250
Dibenz(a,h)anthracene	U		0.00110	0.00250
Dibenzofuran	U		0.00120	0.00250
Diethyl phthalate	U		0.000915	0.00250
Dimethyl phthalate	U		0.000878	0.00250
Fluoranthene	U		0.00114	0.00250
Fluorene	U		0.00131	0.00250
Hexachloro-1,3-butadiene	U		0.00176	0.00250
Hexachlorobenzene	U		0.000972	0.00250
Hexachlorocyclopentadiene	U		0.00117	0.0100
Hexachloroethane	U		0.00188	0.00250
1,2-Diphenylhydrazine	U	N2	0.00124	0.00250
Indeno(1,2,3-cd)pyrene	U		0.000984	0.00250
Isophorone	U		0.00183	0.00250
n-Decane	U		0.00158	0.00250
n-Nitrosodi-n-butylamine	U		0.000735	0.00250
n-Nitrosodi-n-propylamine	U		0.00107	0.00250
n-Nitrosodiethylamine	U		0.000925	0.00250
n-Nitrosodimethylamine	U		0.000651	0.00250
n-Nitrosodiphenylamine	U		0.000829	0.00250
n-Octadecane	U		0.00128	0.00250
Naphthalene	U		0.00200	0.00250
Nitrobenzene	U		0.00124	0.00250
Nonylphenol	U		0.00286	0.00500
Pentachlorobenzene	U		0.00134	0.00250
Pentachlorophenol	U		0.00210	0.00500
Phenanthrene	U		0.00113	0.00250
Phenol	U		0.000967	0.00250
Pyrene	U		0.00115	0.00250
Pyridine	U		0.00117	0.00250
Total Cresols	U		0.00153	0.00750
(S) 2,4,6-Tribromophenol	*68.6*			*29.0-132*
(S) 2-Fluorobiphenyl	*81.7*			*26.0-102*

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	*40.8*			*10.0-66.0*
(S) Nitrobenzene-d5	*77.1*			*15.0-106*
(S) p-Terphenyl-d14	*85.3*			*10.0-120*
(S) Phenol-d6	*28.7*			*10.0-54.0*

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0361	72.2	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0425	85.0	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0418	83.6	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0391	78.2	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0370	74.0	26.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0499	99.8	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0500	100	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0394	78.8	37.0-144	
2,4-Dichlorophenol	0.0500	0.0450	90.0	39.0-135	
2,4-Dimethylphenol	0.0500	0.0520	104	32.0-120	
2,4-Dinitrophenol	0.0500	0.0542	108	1.00-191	
2,4-Dinitrotoluene	0.0500	0.0409	81.8	39.0-139	
2,6-Dichlorophenol	0.0500	0.0414	82.8	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0557	111	50.0-158	
2-Chloronaphthalene	0.0500	0.0382	76.4	60.0-120	
2-Chlorophenol	0.0500	0.0378	75.6	23.0-134	
2-Methylphenol	0.0500	0.0354	70.8	26.0-120	
2-Nitrophenol	0.0500	0.0405	81.0	29.0-182	
3&4-Methyl Phenol	0.0500	0.0338	67.6	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0585	58.5	1.00-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0477	95.4	1.00-181	
4-Bromophenyl-phenylether	0.0500	0.0427	85.4	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0436	87.2	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0381	76.2	25.0-158	
4-Nitrophenol	0.0500	0.0227	45.4	1.00-132	
Acenaphthene	0.0500	0.0445	89.0	47.0-145	
Acenaphthylene	0.0500	0.0381	76.2	33.0-145	
Acetophenone	0.0500	0.0364	72.8	28.0-120	
Alpha-Terpineol	0.0500	0.0426	85.2	30.0-120	

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0366	73.2	10.0-120	
Anthracene	0.0500	0.0431	86.2	27.0-133	
Atrazine	0.0500	0.0471	94.2	39.0-141	
Benzidine	0.100	0.0682	68.2	1.00-120	
Benzo(a)anthracene	0.0500	0.0441	88.2	33.0-143	
Benzo(a)pyrene	0.0500	0.0560	112	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0528	106	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0437	87.4	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0536	107	11.0-162	
Benzoic acid	0.100	0.0598	59.8	10.0-120	
Benzylbutyl phthalate	0.0500	0.0469	93.8	1.00-152	
Bis(2-chlorethoxy)methane	0.0500	0.0456	91.2	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0409	81.8	33.0-185	
Bis(2-chloroisopropyl)ether	0.0500	0.0499	99.8	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0461	92.2	8.00-158	
Carbazole	0.0500	0.0515	103	45.0-121	
Chrysene	0.0500	0.0417	83.4	17.0-168	
Di-n-butyl phthalate	0.0500	0.0460	92.0	1.00-120	
Di-n-octyl phthalate	0.0500	0.0470	94.0	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0537	107	1.00-227	
Dibenzofuran	0.0500	0.0372	74.4	42.0-120	
Diethyl phthalate	0.0500	0.0494	98.8	1.00-120	
Dimethyl phthalate	0.0500	0.0466	93.2	1.00-120	
Fluoranthene	0.0500	0.0418	83.6	26.0-137	
Fluorene	0.0500	0.0383	76.6	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0406	81.2	24.0-120	
Hexachlorobenzene	0.0500	0.0458	91.6	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0456	91.2	10.0-120	
Hexachloroethane	0.0500	0.0381	76.2	40.0-120	
1,2-Diphenylhydrazine	0.0500	0.0358	71.6	37.0-125	N2
Indeno(1,2,3-cd)pyrene	0.0500	0.0402	80.4	1.00-171	
Isophorone	0.0500	0.0409	81.8	21.0-196	
n-Decane	0.0500	0.0357	71.4	10.0-127	
n-Nitrosodi-n-butylamine	0.0500	0.0430	86.0	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0469	93.8	1.00-230	
n-Nitrosodiethylamine	0.0500	0.0363	72.6	10.0-142	
n-Nitrosodimethylamine	0.0500	0.0199	39.8	10.0-120	
n-Nitrosodiphenylamine	0.0500	0.0366	73.2	44.0-120	
n-Octadecane	0.0500	0.0301	60.2	17.0-126	
Naphthalene	0.0500	0.0425	85.0	21.0-133	

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0456	91.2	35.0-180	
Nonylphenol	0.0500	0.0516	103	57.0-136	
Pentachlorobenzene	0.0500	0.0426	85.2	10.0-151	
Pentachlorophenol	0.0500	0.0461	92.2	14.0-176	
Phenanthrene	0.0500	0.0446	89.2	54.0-120	
Phenol	0.0500	0.0169	33.8	5.00-120	
Pyrene	0.0500	0.0410	82.0	52.0-120	
Pyridine	0.0500	0.0147	29.4	10.0-120	
Total Cresols	0.100	0.0692	69.2	36.0-110	
(S) 2,4,6-Tribromophenol			*87.6*	*29.0-132*	
(S) 2-Fluorobiphenyl			*84.5*	*26.0-102*	
(S) 2-Fluorophenol			*39.7*	*10.0-66.0*	
(S) Nitrobenzene-d5			*76.9*	*15.0-106*	
(S) p-Terphenyl-d14			*92.5*	*10.0-120*	
(S) Phenol-d6			*33.2*	*10.0-54.0*	

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4,5-Tetrachlorobenzene	0.0481	ND	0.0192	0.0154	39.9	32.0	1	10.0-147			22.0	34
1,2,4-Trichlorobenzene	0.0481	ND	0.0193	0.0178	40.1	37.0	1	44.0-142	J6	J6	8.09	50
1,2-Dichlorobenzene	0.0481	ND	0.0171	0.0156	35.6	32.4	1	14.0-125			9.17	24
1,3-Dichlorobenzene	0.0481	ND	0.0156	0.0151	32.4	31.4	1	12.0-123			3.26	22
1,4-Dichlorobenzene	0.0481	ND	0.0160	0.0147	33.3	30.6	1	12.0-125			8.47	23
2,2-Oxybis(1-Chloropropane)	0.0481	ND	0.0214	0.0189	44.5	39.3	1	36.0-166			12.4	76
2,4,5-Trichlorophenol	0.0481	ND	0.0370	0.0269	76.9	55.9	1	15.0-160		J3	31.6	27
2,4,6-Trichlorophenol	0.0481	ND	0.0284	0.0215	59.0	44.7	1	37.0-144			27.7	58
2,4-Dichlorophenol	0.0481	ND	0.0220	0.0165	45.7	34.3	1	39.0-135		J6	28.6	50
2,4-Dimethylphenol	0.0481	ND	0.0237	0.0192	49.3	39.9	1	32.0-120			21.0	58
2,4-Dinitrophenol	0.0481	ND	0.0234	0.0137	48.6	28.5	1	1.00-191			52.3	132
2,4-Dinitrotoluene	0.0481	ND	0.0286	0.0251	59.5	52.2	1	39.0-139			13.0	42
2,6-Dichlorophenol	0.0481	ND	0.0190	0.0152	39.5	31.6	1	60.0-140	J6	J6	22.2	30
2,6-Dinitrotoluene	0.0481	ND	0.0397	0.0343	82.5	71.3	1	50.0-158			14.6	48
2-Chloronaphthalene	0.0481	ND	0.0215	0.0176	44.7	36.6	1	60.0-120	J6	J6	19.9	24
2-Chlorophenol	0.0481	ND	0.0137	0.0103	28.5	21.4	1	23.0-134		J6	28.3	61
2-Methylphenol	0.0481	ND	0.0114	0.00946	23.7	19.7	1	14.0-120			18.6	29
2-Nitrophenol	0.0481	ND	0.0198	0.0162	41.2	33.7	1	29.0-182			20.0	55

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
3&4-Methyl Phenol	0.0481	ND	0.0107	0.00898	22.2	18.7	1	13.0-124			17.5	26
3,3-Dichlorobenzidine	0.0962	ND	0.0350	0.0331	36.4	34.4	1	1.00-262			5.58	108
4,6-Dinitro-2-methylphenol	0.0481	ND	0.0245	0.0183	50.9	38.0	1	1.00-181			29.0	203
4-Bromophenyl-phenylether	0.0481	ND	0.0314	0.0228	65.3	47.4	1	53.0-127		J6	31.7	43
4-Chloro-3-methylphenol	0.0481	ND	0.0227	0.0172	47.2	35.8	1	22.0-147			27.6	73
4-Chlorophenyl-phenylether	0.0481	ND	0.0218	0.0171	45.3	35.6	1	25.0-158			24.2	61
4-Nitrophenol	0.0481	ND	0.0120	0.0115	24.9	23.9	1	1.00-132			4.26	131
Acenaphthene	0.0481	ND	0.0256	0.0216	53.2	44.9	1	47.0-145		J6	16.9	48
Acenaphthylene	0.0481	ND	0.0222	0.0192	46.2	39.9	1	33.0-145			14.5	74
Acetophenone	0.0481	ND	0.0179	0.0159	37.2	33.1	1	10.0-139			11.8	35
Alpha-Terpineol	0.0481	ND	0.0252	0.0232	52.4	48.2	1	30.0-120			8.26	30
Aniline	0.0481	ND	0.00930	0.00839	19.3	17.4	1	10.0-120			10.3	25
Anthracene	0.0481	ND	0.0322	0.0236	66.9	49.1	1	27.0-133			30.8	66
Atrazine	0.0481	ND	0.0340	0.0284	70.7	59.0	1	39.0-130			17.9	30
Benzidine	0.0962	ND	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	40
Benzo(a)anthracene	0.0481	ND	0.0326	0.0244	67.8	50.7	1	33.0-143			28.8	53
Benzo(a)pyrene	0.0481	ND	0.0426	0.0315	88.6	65.5	1	17.0-163			30.0	72
Benzo(b)fluoranthene	0.0481	ND	0.0378	0.0305	78.6	63.4	1	24.0-159			21.4	71
Benzo(g,h,i)perylene	0.0481	ND	0.0397	0.0298	82.5	62.0	1	1.00-219			28.5	97
Benzo(k)fluoranthene	0.0481	ND	0.0434	0.0283	90.2	58.8	1	11.0-162			42.1	63
Benzoic acid	0.0962	ND	0.0582	0.0409	60.5	42.5	1	10.0-120			34.9	40
Benzylbutyl phthalate	0.0481	ND	0.0352	0.0262	73.2	54.5	1	1.00-152			29.3	60
Bis(2-chlorethoxy)methane	0.0481	ND	0.0215	0.0194	44.7	40.3	1	33.0-184			10.3	54
Bis(2-chloroethyl)ether	0.0481	ND	0.0179	0.0155	37.2	32.2	1	12.0-158			14.4	108
Bis(2-chloroisopropyl)ether	0.0481	ND	0.0214	0.0189	44.5	39.3	1	36.0-166			12.4	76
Bis(2-Ethylhexyl)phthalate	0.0481	ND	0.0357	0.0263	74.2	54.7	1	8.00-158			30.3	82
Carbazole	0.0481	ND	0.0423	0.0340	87.9	70.7	1	23.0-158			21.8	26
Chrysene	0.0481	ND	0.0325	0.0246	67.6	51.1	1	17.0-168			27.7	87
Di-n-butyl phthalate	0.0481	ND	0.0400	0.0250	83.2	52.0	1	1.00-120			46.2	47
Di-n-octyl phthalate	0.0481	ND	0.0346	0.0269	71.9	55.9	1	4.00-146			25.0	69
Dibenz(a,h)anthracene	0.0481	ND	0.0488	0.0360	101	74.8	1	1.00-227			30.2	126
Dibenzofuran	0.0481	ND	0.0221	0.0182	45.9	37.8	1	17.0-150			19.4	27
Diethyl phthalate	0.0481	ND	0.0366	0.0309	76.1	64.2	1	1.00-120			16.9	100
Dimethyl phthalate	0.0481	ND	0.0325	0.0278	67.6	57.8	1	1.00-120			15.6	183
Fluoranthene	0.0481	ND	0.0284	0.0217	59.0	45.1	1	26.0-137			26.7	66
Fluorene	0.0481	ND	0.0231	0.0185	48.0	38.5	1	59.0-121	J6	J6	22.1	38
Hexachloro-1,3-butadiene	0.0481	ND	0.0166	0.0142	34.5	29.5	1	24.0-120			15.6	62
Hexachlorobenzene	0.0481	ND	0.0340	0.0237	70.7	49.3	1	1.00-152			35.7	55
Hexachlorocyclopentadiene	0.0481	ND	0.0145	ND	30.1	20.2	1	10.0-146		J3	39.5	34
Hexachloroethane	0.0481	ND	0.0143	0.0122	29.7	25.4	1	40.0-120	J6	J6	15.8	52

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Diphenylhydrazine	0.0481	ND	0.0223	0.0184	46.4	38.3	1	18.0-156	N2	N2	19.2	34
Indeno(1,2,3-cd)pyrene	0.0481	ND	0.0354	0.0270	73.6	56.1	1	1.00-171			26.9	99
Isophorone	0.0481	ND	0.0193	0.0181	40.1	37.6	1	21.0-196			6.42	93
n-Decane	0.0481	ND	0.0109	0.00908	22.7	18.9	1	10.0-127			18.2	37
n-Nitrosodi-n-butylamine	0.0481	ND	0.0191	0.0183	39.7	38.0	1	60.0-140	J6	J6	4.28	30
n-Nitrosodi-n-propylamine	0.0481	ND	0.0205	0.0184	42.6	38.3	1	1.00-230			10.8	87
n-Nitrosodiethylamine	0.0481	ND	0.0156	0.0142	32.4	29.5	1	60.0-140	J6	J6	9.40	30
n-Nitrosodimethylamine	0.0481	ND	0.00655	0.00574	13.6	11.9	1	10.0-120			13.2	40
n-Nitrosodiphenylamine	0.0481	ND	0.0266	0.0214	55.3	44.5	1	16.0-160			21.7	28
n-Octadecane	0.0481	ND	0.0245	0.0177	50.9	36.8	1	17.0-126		J3	32.2	23
Naphthalene	0.0481	ND	0.0197	0.0176	41.0	36.6	1	21.0-133			11.3	65
Nitrobenzene	0.0481	ND	0.0197	0.0181	41.0	37.6	1	35.0-180			8.47	62
Nonylphenol	0.0481	ND	0.0396	0.0300	82.3	62.4	1	37.0-142			27.6	40
Pentachlorobenzene	0.0481	ND	0.0239	0.0184	49.7	38.3	1	60.0-140	J6	J6	26.0	30
Pentachlorophenol	0.0481	ND	0.0406	0.0278	84.4	57.8	1	14.0-176			37.4	86
Phenanthrene	0.0481	ND	0.0329	0.0242	68.4	50.3	1	54.0-120		J6	30.5	39
Phenol	0.0481	ND	0.00582	0.00466	12.1	9.69	1	5.00-120			22.1	64
Pyrene	0.0481	ND	0.0280	0.0215	58.2	44.7	1	52.0-120		J6	26.3	49
Pyridine	0.0481	ND	ND	0.00251	2.91	5.22	1	10.0-120	J6	J3 J6	56.8	40
Total Cresols	0.0962	ND	0.0221	0.0184	23.0	19.1	1	10.0-118			18.3	40
(S) 2,4,6-Tribromophenol					*70.4*	*51.8*		*29.0-132*				
(S) 2-Fluorobiphenyl					*44.8*	*37.6*		*26.0-102*				
(S) 2-Fluorophenol					*12.8*	*11.1*		*10.0-66.0*				
(S) Nitrobenzene-d5					*38.9*	*36.7*		*15.0-106*				
(S) p-Terphenyl-d14					*65.1*	*42.4*		*10.0-120*				
(S) Phenol-d6					*11.3*	*9.92*		*10.0-54.0*		J2		

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Influent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sulsar

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	1657 1L-Amb-No Pres	604.1 1L-Amb-No Pres	608.3 1L-Amb-No Pres	615 1L-Amb-No Pres	617 1L-Amb-No Pres	625.1 1L-Amb-No Pres	632 1L-Amb-No Pres	ALL Cl, F, NO3, SO4 500mlHDPE-NoPres	ALL6251DIOXSC 1L-Amb-NoPres	ALLCNSEAL,CNAM 250mlHDPE-NaOH	Remarks	Sample # (lab only)
INFLUENT	Grab	WW		5-14-24	2, 8, 14 hr	20										X		01
INFLUENT	Comp	WW		5-14-24	2200	27	X	X	X	X	X	X	X	X	X			02
INFLUENT	Grab	WW		~~0830~~ 5-15-24	0730	1												03

Analysis / Container / Preservative

Chain of Custody Page 7 of 8

Pace Analytical®
190 Allen, TX 75013

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1736414

Table #

Acctnum: **DSPARISPTX**

Template: **T197094**

Prelogin: **P1068910**

PM: **840 - Katie Ingram**

PB:

Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, ~~Ni~~, ~~Pb~~, Sb, Se, Tl, and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP	__Y __N
COC Signed/Accurate:		__Y __N
Bottles arrive intact:		__Y __N
Correct bottles used:		__Y __N
Sufficient volume sent:		__Y __N
If Applicable		
VOA Zero Headspace:		__Y __N
Preservation Correct/Checked:		__Y __N
RAD Screen <0.5 mR/hr:		__Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Brad Sulsar	5/15/24	08:15	Cody Curtis		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Cody Curtis	5/15/24	1105	PACE		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: **bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov**

Project Description:
Influent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sulser

Site/Facility ID #

P.O. #

Collected by (signature):
Brad Sulser

Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALLPHTCHLOR 250mlAmb-H2SO4	ALLSUBLLHG 250mlClr	ALLV624.1 40mlClr-NoPres	Hex Cr and Cr3 500mlHDPE-NoPres	Metals 250mlHDPE HNO3	N+N, Total Nitrogen 250mlHDPE-H2SO4	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TKN 250mlHDPE-H2SO4		Remarks	Sample # (lab only)
INFLUENT	Grab	WW		5-14-24	2:8,14 20	20	X		X									01
INFLUENT	Comp	WW		5-14-24	2200	27		X		X	X	X	X	X	X			02
INFLUENT	Grab	WW		5-15-24	0730	1		X										03

Chain of Custody Page ___ of ___

Pace Analytical®
190 Allen, TX 75013

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SDG # L1736414

Table #

Acctnum: **DSPARISPTX**

Template: **T197094**

Prelogin: **P1068910**

PM: **840 - Katie Ingram**

PB:

Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP __Y __N
COC Signed/Accurate:	__Y __N
Bottles arrive intact:	__Y __N
Correct bottles used:	__Y __N
Sufficient volume sent:	__Y __N
If Applicable	
VOA Zero Headspace:	__Y __N
Preservation Correct/Checked:	__Y __N
RAD Screen <0.5 mR/hr:	__Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Brad Sulser	5/15/24	08:15	Cole Curtis		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Cole Curtis	5/15/24	11:05	PACE		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: City of Paris Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☑ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR19 **Cooler Temp °C:** 4.7 (Recorded) ~~10.1~~ 2.2 (Correction Factor) ~~4.8~~ 2.3 (Actual)

Receiving Lab 2 Thermometer Used: _____ **Cooler Temp °C:** _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AR Date: 5/15

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☑ No ☐

Login Person: OC Date: 5/15

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: 6308011 Residual Chlorine Present Cl Strips: 14860 Sulfide Present Lead Acetate Strips: 14862	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑ NA ☐ Yes ☐ No ☑ NA ☐
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☑ NA ☐
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Influent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sulsar

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	1657 1L-Amb-No Pres	604.1 1L-Amb-No Pres	608.3 1L-Amb-No Pres	615 1L-Amb-No Pres	617 1L-Amb-No Pres	625.1 1L-Amb-No Pres	632 1L-Amb-No Pres	ALL Cl, F, NO3, SO4 500mlHDPE-NoPres	ALL6251DIOXSC 1L-Amb-NoPres	ALLCNSEAL,CNAM 250mlHDPE-NaOH	Remarks	Sample # (lab only)
INFLUENT	Grab	WW		5-14-24	2,8,14 20	20										X		01
INFLUENT	Comp	WW		5-14-24	2200	27	X	X	X	X	X	X	X	X	X			02
INFLUENT	Grab	WW		~~5-14-24~~ 5-15-24	0730	1												03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, ~~Ni~~, ~~Pb~~, Sb, Se, Tl, and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: Time:

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

If preservation required by Login: Date/Time

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	5/15/24	08:15	Cody Curtis
Cody Curtis	5/15/24	1109	PACE
Alejandra Ballagas DATE	5/15/24	1700	FedEx

REL: FedEx

REC: Alejandra H 5/16/24 900 EDAS 0.8+0.1=0.9

Chain of Custody Page 1 of 1

Pace Analytical®
190 Allen, TX 75013

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SDG # L1736414

Table #

Acctnum: DSPARISPTX

Template: T197094

Prelogin: P1068910

PM: 840 - Katie Ingram

PB:

Shipped Via: FedEX Priority

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Influent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sulsar

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALLPHTCHLOR 250mlAmb-H2SO4	ALLSUBLLHG 250mlClr	ALLV624.1 40mlClr-NoPres	Hex Cr and Cr3 500mlHDPE-NoPres	Metals 250mlHDPE HNO3	N+N,Total Nitrogen 250mlHDPE-H2SO4	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TKN 250mlHDPE-H2SO4	Remarks	Sample # (lab only)
INFLUENT	Grab	WW		5-14-24	2:8:14 20	20	X		X								01
INFLUENT	Comp	WW		5-14-24	2200	27		X		X	X	X	X	X	X		02
INFLUENT	Grab	WW		5-15-24	0730	1		X									03

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
190 Allen, TX 75013

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SDG # L1731614

Table #

Acctnum: **DSPARISPTX**

Template: **T197094**

Prelogin: **P1068910**

PM: 840 - Katie Ingram

PB:

Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP	__Y __N
COC Signed/Accurate:		__Y __N
Bottles arrive intact:		__Y __N
Correct bottles used:		__Y __N
Sufficient volume sent:		__Y __N
If Applicable		
VOA Zero Headspace:		__Y __N
Preservation Correct/Checked:		__Y __N
RAD Screen <0.5 mR/hr:		__Y __N

	Date:	Time:	
Relinquished by : (Signature) Brad Sulsar	5/15/24	08:15	Received by: (Signature) Cobb Curtis
Relinquished by : (Signature) Cobb Curtis	5/15/24	11:05	Received by: (Signature) PACE
Relinquished by : (Signature) PACE Alejandra Gallegos	5/15/24	1700	Received for lab by: (Signature) FedEX

REL: FedEX

REC:

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: °C Bottles Received:

Date: 5/15/24 Time: 1700

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: City of Paris Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☑ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR19 Cooler Temp °C: 2.2 4.7 (Recorded) 10.1 (Correction Factor) 2.3 5.8 (Actual)

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AR Date: 5/15

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☑ No ☐

Login Person: OC Date: 5/15

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: 6308011 Residual Chlorine Present Cl Strips: 14860 Sulfide Present Lead Acetate Strips: 14862	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑ NA ☐ Yes ☐ No ☑ NA ☐
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☑ NA ☐
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 28, 2024

Jeremy Watkins
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Dear Jeremy Watkins:

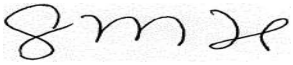
Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Lane
angela.lane@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40278479001	**INFLUENT**	Water	05/14/24 22:00	05/18/24 11:15
40278479002	**INFLUENT**	Water	05/15/24 07:30	05/18/24 11:15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40278479001	**INFLUENT**	EPA 1631E	TXW	1
40278479002	**INFLUENT**	EPA 1631E	TXW	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Sample: INFLUENT **Lab ID: 40278479001** Collected: 05/14/24 22:00 Received: 05/18/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**5.55**	ng/L	0.53	1	05/22/24 12:38	05/27/24 20:01	7439-97-6	

Sample: INFLUENT **Lab ID: 40278479002** Collected: 05/15/24 07:30 Received: 05/18/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**0.319J**	ng/L	0.50	1	05/22/24 12:38	05/27/24 19:56	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

QC Batch: 475020
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40278479001, 40278479002

METHOD BLANK: 2720659 Matrix: Water
Associated Lab Samples: 40278479001, 40278479002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/27/24 18:07	

METHOD BLANK: 2720660 Matrix: Water
Associated Lab Samples: 40278479001, 40278479002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/27/24 19:41	

METHOD BLANK: 2720661 Matrix: Water
Associated Lab Samples: 40278479001, 40278479002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/27/24 20:41	

METHOD BLANK: 2720662 Matrix: Water
Associated Lab Samples: 40278479001, 40278479002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	05/27/24 18:12	

LABORATORY CONTROL SAMPLE: 2720663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.08	82	79-121	

LABORATORY CONTROL SAMPLE: 2720664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.43	89	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2723009 2723010

Parameter	Units	40278194002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	14.0	21.1	21.1	33.4	32.3	92	87	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2723011 2723012

Parameter	Units	40278194009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.17	4	4	4.47	4.46	82	82	75-125	0	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1736414 INFLUENT-WWTP
Pace Project No.: 40278479

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40278479001	**INFLUENT**	EPA 1631E	475020	EPA 1631E	475371
40278479002	**INFLUENT**	EPA 1631E	475020	EPA 1631E	475371

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

40278479

Page : 1 Of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Pace Analytical	Report To	Pace Analytical Subout Team	Attention	Kenda Fortner
Address	400 W Bethany Drive Suite 190	Copy To		Company Name	
Allen, TX 75013				Address	
Email	Dallas_Sub@pacelabs.com	Purchase Order #	L1736414	Pace Quote	
Phone	(972) 727-1123 Fax	Project Name	Influent - Wastewater Treatment Plant	Pace Project Manager	Angela Lane
Requested Due Date	22-May	Project #		Pace Profile #	38076

Regulatory Agency

State / Location: TX

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Low Level Hg	Residual Chlorine (Y/N)	
1	INFLUENT	WT				14-May	22 00		1								1		X		001
2	INFLUENT	WT				15-May	7 30		1								1		X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Carter/Alyson Ramos/PACE	5/17/24	1700	FedEx	5/17/24	1700	
Pace Analytical Batch WG2288501	FedEx	5/18/24	1115		5/18/24	1115	
Pace Analytical SDGs: L1736414							
Location: Green Bay, WI 54302							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

SIGNATURE of SAMPLER. DATE Signed.

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Sample Preservation Receipt Form

Client Name: Pace Tx Project # 40278479

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted)

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001																																		2.5 / 5
002																																		2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

5/18/24

Exceptions to preservation check. VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): ☐Yes ☐No ☑N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

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Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40278479

40278479

Client Name: Pace Tx

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 7411 4453 1029

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR-136 **Type of Ice:** Wet Blue Dry (None) ☐ Meltwater Only

Cooler Temperature Uncorr: N/A /Corr: N/A

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 5/18/24 /Initials: GF

Labeled By Initials: NK

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4. IRWO 5/18/24 GF
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, (Pace IR), Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. 001 date & time 5/18/24 GF
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1103827

PABA-N

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Printed 06/04/2024
5:10

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

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SAMPLE CROSS REFERENCE

Project
1103827

Printed 6/4/2024 Page 1 of 1
ww

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Sample	Sample ID	Taken	Time	Received
2300154	*L1736414-02*	05/14/2024	22:00:00	05/18/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Client Supplied Amber Glass
Bottle 06 Client Supplied Amber Glass
Bottle 07 Client Supplied Amber Glass
Bottle 08 Client Supplied Amber Glass
Bottle 09 Client Supplied Amber Glass
Bottle 10 Client Supplied Amber Glass
Bottle 11 Client Supplied Amber Glass
Bottle 12 Client Supplied Amber Glass
Bottle 13 Client Supplied Amber Glass
Bottle 14 Client Supplied Amber Glass
Bottle 15 Client Supplied Amber Glass
Bottle 16 Client Supplied Amber Glass
Bottle 17 Client Supplied Amber Glass
Bottle 18 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1120065) Volume: 1.00000 mL <== Derived from 02 (1019 ml)
Bottle 19 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1120069) Volume: 1.00000 mL <== Derived from 01 (1019 ml)
Bottle 20 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1120071) Volume: 1.00000 mL <== Derived from 02 (1019 ml)
Bottle 21 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1120082) Volume: 1.00000 mL <== Derived from 02 (1019 ml)
Bottle 22 Prepared Bottle: 2 mL Autosampler Vial (Batch 1120466) Volume: 10.00000 mL <== Derived from 03 (1010 ml)
Bottle 23 Prepared Bottle: 2 mL Autosampler Vial (Batch 1120471) Volume: 5.00000 mL <== Derived from 02 (1001 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	21	1120082	05/20/2024	1120942	05/21/2024
EPA 608.3	20	1120071	05/20/2024	1120957	05/21/2024
EPA 615	22	1120466	05/21/2024	1121059	05/24/2024
EPA 632	18	1120065	05/20/2024	1121904	05/24/2024
EPA 604.1	23	1120471	05/21/2024	1121566	05/29/2024
EPA 1657	18	1120065	05/20/2024	1121932	05/22/2024
EPA 617	21	1120082	05/20/2024	1120940	05/21/2024

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Project 1103827

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Printed: 06/04/2024

RESULTS

Sample Results

2300154 **L1736414-02**

Received: 05/18/2024

Non-Potable Water | Collected by: Client | Pace Analytical Dall | PO: WG2288495

Taken: 05/14/2024 22:00:00

EPA 1657 — Prepared: 1120065 05/20/2024 13:59:50 — Analyzed 1121932 05/22/2024 01:44:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Azinphos-methyl (Guthion)	<0.0491	ug/L	0.0491		86-50-0	18
z	Chlorpyrifos	<0.0491	ug/L	0.0491		2921-88-2	18
z	Demeton	<0.0491	ug/L	0.0491		8065-48-3	18
z	Diazinon	<0.0491	ug/L	0.0491		333-41-5	18
z	Malathion	<0.0491	ug/L	0.0491		121-75-5	18
z	Parathion, ethyl	<0.0491	ug/L	0.0491		56-38-2	18
z	Parathion, methyl	<0.0491	ug/L	0.0491		298-00-0	18

EPA 604.1 — Prepared: 1120471 05/21/2024 10:00:00 — Analyzed 1121566 05/29/2024 17:49:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<2.50	ug/L	2.50		70-30-4	23

EPA 608.3 — Prepared: 1120071 05/20/2024 13:59:00 — Analyzed 1120957 05/21/2024 19:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.198	ug/L	0.198		12674-11-2	20
NELAC	PCB-1221	<0.196	ug/L	0.196		11104-28-2	20
NELAC	PCB-1232	<0.196	ug/L	0.196		11141-16-5	20
NELAC	PCB-1242	<0.196	ug/L	0.196		53469-21-9	20
NELAC	PCB-1248	<0.196	ug/L	0.196		12672-29-6	20
NELAC	PCB-1254	<0.196	ug/L	0.196		11097-69-1	20
NELAC	PCB-1260	<0.196	ug/L	0.196		11096-82-5	20
NELAC	PCB-1262	<0.196	ug/L	0.196		37324-23-5	20
NELAC	PCB-1268	<0.196	ug/L	0.196		11100-14-4	20

EPA 608.3 — Prepared: 1120082 05/20/2024 13:59:00 — Analyzed 1120942 05/21/2024 19:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.00981	ug/L	0.00981		72-54-8	21

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Allen, TX 75013

Project 1103827

Printed: 06/04/2024

2300154 L1736414-02 Received: 05/18/2024

Non-Potable Water Collected by: Client Pace Analytical Dall PO: WG2288495
Taken: 05/14/2024 22:00:00

EPA 608.3 Prepared: 1120082 05/20/2024 13:59:00 Analyzed 1120942 05/21/2024 19:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDE	<0.00981	ug/L	0.00981		72-55-9	21
NELAC	4,4-DDT	<0.00981	ug/L	0.00981		50-29-3	21
NELAC	Aldrin	<0.00981	ug/L	0.00981		309-00-2	21
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.00981	ug/L	0.00981		319-84-6	21
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.00981	ug/L	0.00981		319-85-7	21
NELAC	Chlordane	<0.196	ug/L	0.196		57-74-9	21
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.00981	ug/L	0.00981		319-86-8	21
NELAC	Dieldrin	0.0041	ug/L	0.00981	J	60-57-1	21
NELAC	Endosulfan I (alpha)	<0.00981	ug/L	0.00981		959-98-8	21
NELAC	Endosulfan II (beta)	<0.00981	ug/L	0.00981		33213-65-9	21
NELAC	Endosulfan sulfate	<0.00981	ug/L	0.00981		1031-07-8	21
NELAC	Endrin	<0.00981	ug/L	0.00981		72-20-8	21
NELAC	Endrin aldehyde	<0.00981	ug/L	0.00981		7421-93-4	21
NELAC	Gamma-BHC(Lindane)	<0.00981	ug/L	0.00981		58-89-9	21
NELAC	Heptachlor	<0.00981	ug/L	0.00981		76-44-8	21
NELAC	Heptachlor epoxide	<0.00981	ug/L	0.00981		1024-57-3	21
NELAC	Toxaphene	<0.196	ug/L	0.196		8001-35-2	21

EPA 615 Prepared: 1120466 05/21/2024 13:20:00 Analyzed 1121059 05/24/2024 18:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.495	ug/L	0.495		94-75-7	22
NELAC	2,4,5-TP (Silvex)	<0.297	ug/L	0.297		93-72-1	22

EPA 617 Prepared: 1120082 05/20/2024 13:59:00 Analyzed 1120940 05/21/2024 19:22:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.0491	ug/L	0.0491	X	115-32-2	21
z	Methoxychlor	<0.00981	ug/L	0.00981		72-43-5	21
z	Mirex	<0.00981	ug/L	0.00981		2385-85-5	21

EPA 632 Prepared: 1120065 05/20/2024 13:59:50 Analyzed 1121904 05/24/2024 04:25:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.45	ug/L	2.45		63-25-2	18

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Project 1103827

Printed: 06/04/2024

2300154 **L1736414-02** Received: 05/18/2024

Non-Potable Water Collected by: Client Pace Analytical Dall Taken: 05/14/2024 22:00:00 PO: WG2288495

EPA 632 Prepared: 1120065 05/20/2024 13:59:50 Analyzed 1121904 05/24/2024 04:25:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Diuron**	**<0.0442**	**ug/L**	0.0442		**330-54-1**	18

Sample Preparation

2300154 **L1736414-02** Received: 05/18/2024

WG2288495

05/14/2024

Prepared: 05/20/2024 08:26:14 Calculated 05/20/2024 08:26:14 CAL

z **Environmental Fee (per Project)** **Verified**

Cooler Return Prepared: 05/20/2024 17:00:00 Analyzed 05/20/2024 17:00:00 DRS

z **Return Cooler/No bottles Require** **sent**

EPA 1657 Prepared: 1120065 05/20/2024 13:59:50 Analyzed 1121932 05/22/2024 01:44:00 KAP

z **Organophos. Pesticides/1657** **Entered** 18

EPA 604.1 Prepared: 1120471 05/21/2024 10:00:00 Analyzed 1120471 05/21/2024 10:00:00 CRS

Hexachlorophene Extraction **5/1001** **ml** 02

EPA 604.1 Prepared: 1120471 05/21/2024 10:00:00 Analyzed 1121566 05/29/2024 17:49:00 BRU

Hexachlorophene Expansion **Entered** **70-30-4** 23

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Project
1103827

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Printed: 06/04/2024

2300154 L1736414-02

Received: 05/18/2024

WG2288495

05/14/2024

	EPA 608.3	Prepared:	1120069	05/20/2024	14:07:22	Analyzed	1120069	05/20/2024	14:07:22	SAB	
	Solvent Extraction	1/1019	ml								01
	EPA 608.3	Prepared:	1120071	05/20/2024	13:59:00	Analyzed	1120071	05/20/2024	13:59:00	SAB	
	PCB Liq-Liq Extr. W/Hex Exch.	1/1019	ml								02
	EPA 608.3	Prepared:	1120071	05/20/2024	13:59:00	Analyzed	1120957	05/21/2024	19:22:00	KAP	
NELAC	Polychlorinated Biphenyls	Entered									20
	EPA 608.3	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120082	05/20/2024	13:59:00	SAB	
	Liquid-Liquid Extr. W/Hex Ex	10/1019	ml								02
	EPA 608.3	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120942	05/21/2024	19:22:00	KAP	
NELAC	TTO Pesticides	Entered									21
	EPA 615	Prepared:	1120466	05/21/2024	13:20:00	Analyzed	1120466	05/21/2024	13:20:00	CRS	
NELAC	Esterification of Sample	10/1010	ml								03
	EPA 615	Prepared:	1120466	05/21/2024	13:20:00	Analyzed	1121059	05/24/2024	18:22:00	KAP	
NELAC	Herbicides by GC	Entered									22
	EPA 617	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120940	05/21/2024	19:22:00	KAP	
z	For use with !PPR only	Entered									21

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Printed: 06/04/2024

2300154 L1736414-02 Received: 05/18/2024

WG2288495

05/14/2024

EPA 632		Prepared:	1120065	05/20/2024	13:59:50	Analyzed	1120065	05/20/2024	13:59:50	SAB
	Liquid-Liquid Extr. W/Hex Ex	1/1019	ml							02
EPA 632		Prepared:	1120065	05/20/2024	13:59:50	Analyzed	1121904	05/24/2024	04:25:00	BRU
NELAC	Carbaryl/Diuron	Entered								18

Qualifiers:

J - Analyte detected below quantitation limit X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

PABA-N

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Project
1103827

Printed 06/04/2024

Analytical Set 1120940 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1120082	ND	3.52	5.00	ug/L	126369361
Methoxychlor	1120082	ND	0.897	1.00	ug/L	126369361
Mirex	1120082	ND	0.905	1.00	ug/L	126369361

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Kelthane (Dicofol)	43.4	50.0	ug/L	86.9	70.0 - 130	126369360
Kelthane (Dicofol)	57.4	50.0	ug/L	115	70.0 - 130	126369369
Methoxychlor	23.8	25.0	ug/L	95.2	70.0 - 130	126369360
Methoxychlor	25.5	25.0	ug/L	102	70.0 - 130	126369369
Mirex	24.8	25.0	ug/L	99.1	70.0 - 130	126369360
Mirex	24.3	25.0	ug/L	97.3	70.0 - 130	126369369

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1120082	88.2	87.9	50.0	0.100 - 137	176 *	176 *	ug/L	0	30.0
Methoxychlor	1120082	32.1	33.5	50.0	21.5 - 151	64.2	67.0	ug/L	4.27	30.0
Mirex	1120082	53.7	56.3	50.0	11.6 - 140	107	113	ug/L	5.45	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	24.4	100	ug/L	24.4	10.0 - 150	126369360
Decachlorobiphenyl	624136	CCV	24.1	100	ug/L	24.1	10.0 - 150	126369369
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.4	100	ug/L	23.4	10.0 - 150	126369360
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.1	100	ug/L	23.1	10.0 - 150	126369369
Decachlorobiphenyl	1120082	Blank	71.1	100	ug/L	71.1	10.0 - 150	126369361
Decachlorobiphenyl	1120082	LCS	71.8	100	ug/L	71.8	10.0 - 150	126369362
Decachlorobiphenyl	1120082	LCS Dup	67.1	100	ug/L	67.1	10.0 - 150	126369363
Tetrachloro-m-Xylene (Surr)	1120082	Blank	46.5	100	ug/L	46.5	10.0 - 150	126369361
Tetrachloro-m-Xylene (Surr)	1120082	LCS	36.0	100	ug/L	36.0	10.0 - 150	126369362
Tetrachloro-m-Xylene (Surr)	1120082	LCS Dup	37.5	100	ug/L	37.5	10.0 - 150	126369363
Decachlorobiphenyl	2300154	Unknown	0.269	0.981	ug/L	27.4	10.0 - 150	126369365
Tetrachloro-m-Xylene (Surr)	2300154	Unknown	0.249	0.981	ug/L	25.4	10.0 - 150	126369365

Analytical Set 1120942 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1120082	ND	0.731	1.00	ug/L	126369380
4,4-DDE	1120082	ND	0.361	1.00	ug/L	126369380
4,4-DDT	1120082	ND	0.862	1.00	ug/L	126369380
Aldrin	1120082	ND	0.260	1.00	ug/L	126369380
Alpha-BHC(hexachlorocyclohexane)	1120082	ND	0.280	1.00	ug/L	126369380
Beta-BHC(hexachlorocyclohexane)	1120082	ND	0.579	1.00	ug/L	126369380
Delta-BHC(hexachlorocyclohexane)	1120082	ND	0.898	1.00	ug/L	126369380

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Dieldrin	1120082	ND	0.162	1.00	ug/L	126369380
Endosulfan I (alpha)	1120082	ND	0.679	1.00	ug/L	126369380
Endosulfan II (beta)	1120082	ND	0.356	1.00	ug/L	126369380
Endosulfan sulfate	1120082	ND	0.588	1.00	ug/L	126369380
Endrin	1120082	ND	0.538	1.00	ug/L	126369380
Endrin aldehyde	1120082	ND	0.699	1.00	ug/L	126369380
Gamma-BHC(Lindane)	1120082	ND	0.385	1.00	ug/L	126369380
Heptachlor	1120082	ND	0.207	1.00	ug/L	126369380
Heptachlor epoxide	1120082	ND	0.660	1.00	ug/L	126369380
Toxaphene	1120082	ND	0.169	0.200	ug/L	126369380

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
4,4-DDD	24.8	25.0	ug/L	99.2	75.0 - 125	126369379
4,4-DDD	24.6	25.0	ug/L	98.4	75.0 - 125	126369388
4,4-DDE	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
4,4-DDE	24.6	25.0	ug/L	98.4	75.0 - 125	126369388
4,4-DDT	25.9	25.0	ug/L	104	75.0 - 125	126369379
4,4-DDT	27.9	25.0	ug/L	112	75.0 - 125	126369388
Aldrin	24.3	25.0	ug/L	97.2	75.0 - 125	126369379
Aldrin	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Alpha-BHC(hexachlorocyclohexane)	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Alpha-BHC(hexachlorocyclohexane)	23.2	25.0	ug/L	92.8	75.0 - 125	126369388
Beta-BHC(hexachlorocyclohexane)	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Beta-BHC(hexachlorocyclohexane)	23.0	25.0	ug/L	92.0	75.0 - 125	126369388
Delta-BHC(hexachlorocyclohexane)	24.6	25.0	ug/L	98.4	75.0 - 125	126369379
Delta-BHC(hexachlorocyclohexane)	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Dieldrin	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Dieldrin	24.0	25.0	ug/L	96.0	75.0 - 125	126369388
Endosulfan I (alpha)	23.9	25.0	ug/L	95.6	75.0 - 125	126369379
Endosulfan I (alpha)	23.2	25.0	ug/L	92.8	75.0 - 125	126369388
Endosulfan II (beta)	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Endosulfan II (beta)	23.3	25.0	ug/L	93.2	75.0 - 125	126369388
Endosulfan sulfate	23.4	25.0	ug/L	93.6	75.0 - 125	126369379
Endosulfan sulfate	23.0	25.0	ug/L	92.0	75.0 - 125	126369388
Endrin	24.2	25.0	ug/L	96.8	75.0 - 125	126369379
Endrin	24.3	25.0	ug/L	97.2	75.0 - 125	126369388
Endrin aldehyde	24.7	25.0	ug/L	98.8	75.0 - 125	126369379
Endrin aldehyde	24.0	25.0	ug/L	96.0	75.0 - 125	126369388
Gamma-BHC(Lindane)	24.3	25.0	ug/L	97.2	75.0 - 125	126369379
Gamma-BHC(Lindane)	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Heptachlor	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Heptachlor	24.1	25.0	ug/L	96.4	75.0 - 125	126369388
Heptachlor epoxide	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Heptachlor epoxide	23.6	25.0	ug/L	94.4	75.0 - 125	126369388

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1120082	36.1	39.7	50.0	31.0 - 141	72.2	79.4	ug/L	9.50	39.0
4,4-DDE	1120082	32.8	37.3	50.0	30.0 - 145	65.6	74.6	ug/L	12.8	35.0
4,4-DDT	1120082	40.0	41.7	50.0	25.0 - 160	80.0	83.4	ug/L	4.16	42.0
Aldrin	1120082	30.9	33.3	50.0	42.0 - 140	61.8	66.6	ug/L	7.48	35.0
Alpha-BHC(hexachlorocyclohexane)	1120082	30.3	36.2	50.0	37.0 - 140	60.6	72.4	ug/L	17.7	36.0
Beta-BHC(hexachlorocyclohexane)	1120082	39.7	44.4	50.0	17.0 - 147	79.4	88.8	ug/L	11.2	44.0
Delta-BHC(hexachlorocyclohexane)	1120082	33.6	37.9	50.0	19.0 - 140	67.2	75.8	ug/L	12.0	52.0
Dieldrin	1120082	32.9	37.2	50.0	36.0 - 146	65.8	74.4	ug/L	12.3	49.0
Endosulfan I (alpha)	1120082	27.8	32.9	50.0	45.0 - 153	55.6	65.8	ug/L	16.8	28.0
Endosulfan II (beta)	1120082	22.9	26.6	50.0	0.100 - 202	45.8	53.2	ug/L	14.9	53.0
Endosulfan sulfate	1120082	26.7	29.8	50.0	26.0 - 144	53.4	59.6	ug/L	11.0	38.0
Endrin	1120082	32.0	36.8	50.0	30.0 - 147	64.0	73.6	ug/L	14.0	48.0
Endrin aldehyde	1120082	35.7	38.1	50.0	37.6 - 158	71.4	76.2	ug/L	6.50	30.0
Gamma-BHC(Lindane)	1120082	29.6	34.2	50.0	32.0 - 140	59.2	68.4	ug/L	14.4	39.0
Heptachlor	1120082	29.7	31.2	50.0	34.0 - 140	59.4	62.4	ug/L	4.93	43.0
Heptachlor epoxide	1120082	30.7	35.2	50.0	37.0 - 142	61.4	70.4	ug/L	13.7	26.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	24.4	100	ug/L	24.4	0.100 - 144	126369379
Decachlorobiphenyl	624136	CCV	24.1	100	ug/L	24.1	0.100 - 144	126369388
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.4	100	ug/L	23.4	0.100 - 107	126369379
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.1	100	ug/L	23.1	0.100 - 107	126369388
Decachlorobiphenyl	1120082	Blank	71.1	100	ug/L	71.1	0.100 - 144	126369380
Decachlorobiphenyl	1120082	LCS	71.8	100	ug/L	71.8	0.100 - 144	126369381
Decachlorobiphenyl	1120082	LCS Dup	67.1	100	ug/L	67.1	0.100 - 144	126369382
Tetrachloro-m-Xylene (Surr)	1120082	Blank	46.5	100	ug/L	46.5	0.100 - 107	126369380
Tetrachloro-m-Xylene (Surr)	1120082	LCS	36.0	100	ug/L	36.0	0.100 - 107	126369381
Tetrachloro-m-Xylene (Surr)	1120082	LCS Dup	37.5	100	ug/L	37.5	0.100 - 107	126369382
Decachlorobiphenyl	2300154	Unknown	0.0269	0.0981	ug/L	27.4	0.100 - 144	126369384
Tetrachloro-m-Xylene (Surr)	2300154	Unknown	0.0249	0.0981	ug/L	25.4	0.100 - 107	126369384

Analytical Set 1120957 EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1120071	ND	0.202	0.202	ug/L	126369488
PCB-1221	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1232	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1242	1120071	ND	0.192	0.200	ug/L	126369488
PCB-1248	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1254	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1260	1120071	ND	0.161	0.200	ug/L	126369488
PCB-1262	1120071	ND	0.198	0.200	ug/L	126369488
PCB-1268	1120071	ND	0.143	0.200	ug/L	126369488

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Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1070	1000	ug/L	107	80.0 - 115	126369487
PCB-1016	1050	1000	ug/L	105	80.0 - 115	126369494
PCB-1260	1120	1000	ug/L	112	80.0 - 115	126369487
PCB-1260	1040	1000	ug/L	104	80.0 - 115	126369494

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1120071	713	658	1000	39.8 - 135	71.3	65.8	ug/L	8.02	30.0
PCB-1260	1120071	702	685	1000	36.1 - 134	70.2	68.5	ug/L	2.45	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1120071	Blank	71.1	100	ug/L	71.1	10.0 - 200	126369488
Tetrachloro-m-Xylene (Surr)	1120071	Blank	46.5	100	ug/L	46.5	10.0 - 200	126369488
Decachlorobiphenyl	2300154	Unknown	0.0269	0.0981	ug/L	27.4	10.0 - 200	126369492
Tetrachloro-m-Xylene (Surr)	2300154	Unknown	0.0249	0.0981	ug/L	25.4	10.0 - 200	126369492

Analytical Set 1121059 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1120466	ND	0.159	0.500	ug/L	126371567
2,4,5-TP (Silvex)	1120466	0.0944	0.0893	0.300	ug/L	126371567

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.6	80.0 - 115	126371566
2,4 Dichlorophenoxyacetic acid	140	150	ug/L	93.1	80.0 - 115	126371573
2,4,5-TP (Silvex)	171	150	ug/L	114	80.0 - 115	126371566
2,4,5-TP (Silvex)	154	150	ug/L	103	80.0 - 115	126371573

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1120466	0.839	0.834	1.00	0.100 - 319	83.9	83.4	ug/L	0.598	30.0
2,4,5-TP (Silvex)	1120466	0.592	0.682	1.00	0.100 - 244	59.2	68.2	ug/L	14.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	139	200	ug/L	69.5	0.100 - 313	126371566
2,4-Dichlorophenylacetic Acid		CCV	167	200	ug/L	83.5	0.100 - 313	126371573
2,4-Dichlorophenylacetic Acid	1120466	Blank	50.3	200	ug/L	25.2	0.100 - 313	126371567
2,4-Dichlorophenylacetic Acid	1120466	LCS	145	200	ug/L	72.5	0.100 - 313	126371568
2,4-Dichlorophenylacetic Acid	1120466	LCS Dup	66.8	200	ug/L	33.4	0.100 - 313	126371569
2,4-Dichlorophenylacetic Acid	2300154	Unknown	0.213	1.98	ug/L	10.8	0.100 - 313	126371571

Analytical Set 1121566 — EPA 604.1

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1120471	1.70	0.890	2.50	ug/L	126384885

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	4990	5000	ug/L	99.7	70.0 - 130	126384884
Hexachlorophene	4820	5000	ug/L	96.5	70.0 - 130	126384888
Hexachlorophene	4890	5000	ug/L	97.8	70.0 - 130	126384891

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1120471	61.3	39.0	50.0	25.5 - 145	123	78.0	ug/L	44.8	50.0

Analytical Set 1121904 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1120065	ND	66.1	2500	ug/L	126392200
Diuron	1120065	ND	44.4	45.0	ug/L	126392200

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	510	500	ug/L	102	70.0 - 130	126392199
Carbaryl (Sevin)	554	500	ug/L	111	70.0 - 130	126392203
Carbaryl (Sevin)	556	500	ug/L	111	70.0 - 130	126392206
Carbaryl (Sevin)	583	500	ug/L	117	70.0 - 130	126392210
Carbaryl (Sevin)	594	500	ug/L	119	70.0 - 130	126392213
Carbaryl (Sevin)	1020	1000	ug/L	102	70.0 - 130	126392217
Diuron	535	500	ug/L	107	70.0 - 130	126392199
Diuron	571	500	ug/L	114	70.0 - 130	126392203
Diuron	592	500	ug/L	118	70.0 - 130	126392206
Diuron	570	500	ug/L	114	70.0 - 130	126392210
Diuron	619	500	ug/L	124	70.0 - 130	126392213
Diuron	1070	1000	ug/L	107	70.0 - 130	126392217

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1120065	894	979	1000	17.1 - 131	89.4	97.9	ug/L	9.08	30.0
Diuron	1120065	900	961	1000	0.100 - 138	90.0	96.1	ug/L	6.56	30.0

Analytical Set 1121932 — EPA 1657

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1010	1000	ug/L	101	37.0 - 150	126392774
Azinphos-methyl (Guthion)	1120	1000	ug/L	112	37.0 - 150	126392780
Azinphos-methyl (Guthion)	1170	1000	ug/L	117	37.0 - 150	126392786
Chlorpyrifos	974	1000	ug/L	97.4	48.0 - 150	126392774
Chlorpyrifos	1000	1000	ug/L	100	48.0 - 150	126392780

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1030	1000	ug/L	103	48.0 - 150	126392786
Demeton	972	1000	ug/L	97.2	16.0 - 150	126392774
Demeton	1040	1000	ug/L	104	16.0 - 150	126392780
Demeton	1120	1000	ug/L	112	16.0 - 150	126392786
Diazinon	962	1000	ug/L	96.2	50.0 - 150	126392774
Diazinon	1010	1000	ug/L	101	50.0 - 150	126392780
Diazinon	1130	1000	ug/L	113	50.0 - 150	126392786
Malathion	957	1000	ug/L	95.7	50.0 - 150	126392774
Malathion	1070	1000	ug/L	107	50.0 - 150	126392780
Malathion	1080	1000	ug/L	108	50.0 - 150	126392786
Parathion, ethyl	952	1000	ug/L	95.2	50.0 - 150	126392774
Parathion, ethyl	1110	1000	ug/L	111	50.0 - 150	126392780
Parathion, ethyl	1170	1000	ug/L	117	50.0 - 150	126392786
Parathion, methyl	942	1000	ug/L	94.2	50.0 - 150	126392774
Parathion, methyl	1110	1000	ug/L	111	50.0 - 150	126392780
Parathion, methyl	1150	1000	ug/L	115	50.0 - 150	126392786

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	982	2000	ug/L	49.1	0.100 - 106	126392774
Tributylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 106	126392780
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126392786
Triphenylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 172	126392774
Triphenylphosphate		CCV	976	2000	ug/L	48.8	0.100 - 172	126392780
Triphenylphosphate		CCV	924	2000	ug/L	46.2	0.100 - 172	126392786
Tributylphosphate	2300154	Unknown	0.670	1.96	ug/L	34.2	0.100 - 106	126392785
Triphenylphosphate	2300154	Unknown	0.492	1.96	ug/L	25.1	0.100 - 172	126392785

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

1103827 CoC Print Group 001 of 001

Sub-Contract Chain of Custody

Batch Date/Time: 05/17/24 13:37
Sub-Contract Lab: ANALABKTX
Address: 2600 Dudley Rd
City/State: Kilgore, TX 75662-3730
Contact:
Kilgore.projectmanagement@spllabs.com
Owner Lab: PACEATX
Address: 400 W. Bethany Drive
Suite 190
City/State: Allen, TX 75013
Phone: (972) 727-1123
Fax:

WO: WG2288495
Email: Dallas_Sub@pacelabs.com
Results Due Date: 05/22/24
ESC Purchase Order #: L1736414
Send Reports to: Aysen Ramos

Pace Analytical

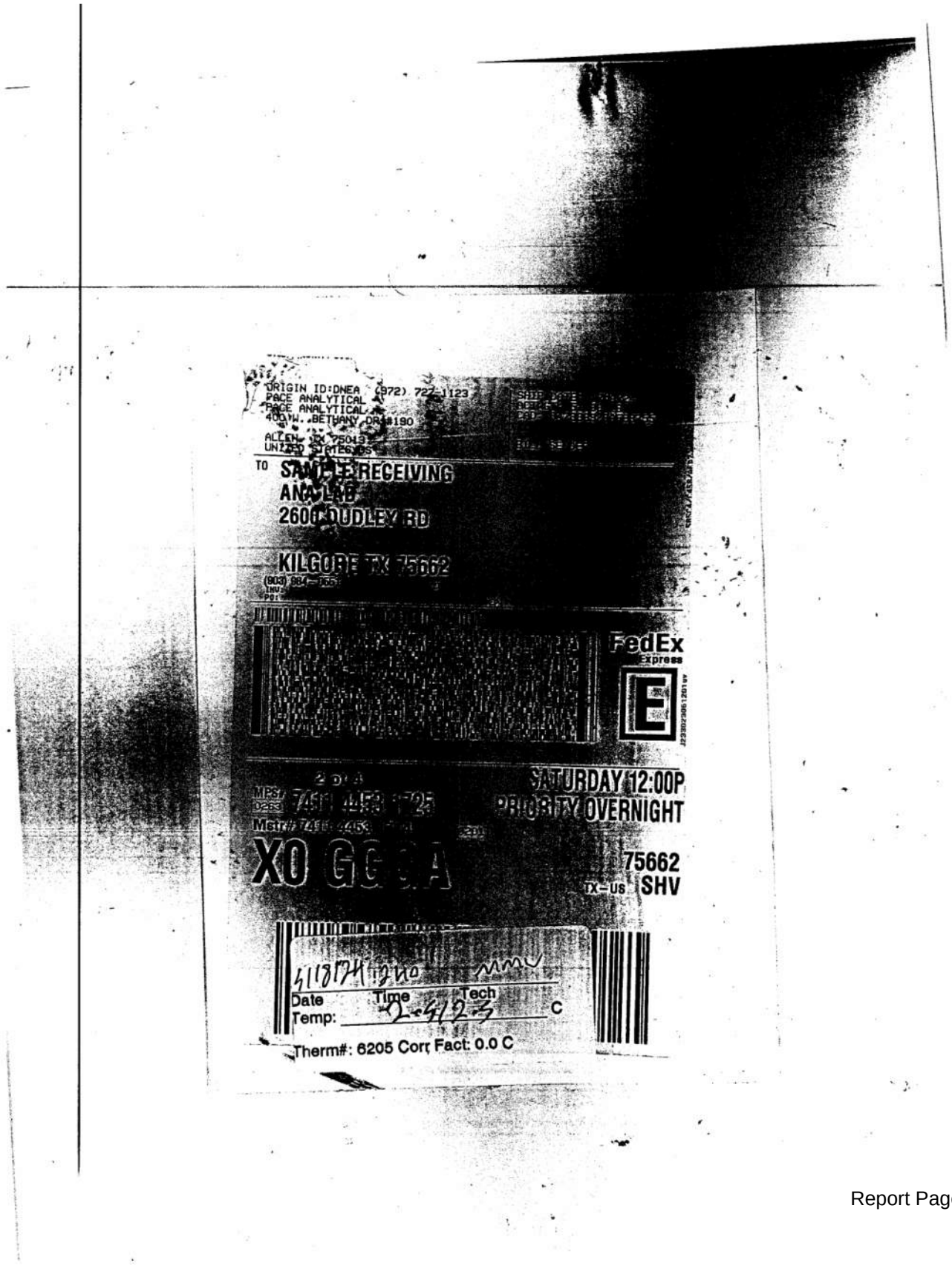
400 W. Bethany Drive Suite 190
Allen, TX 75013
Phone:(972) 727-1123

2300154

Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
INFLUENT S47273306 S47273307 S47273311 S47273312 S47273313	WW	TX	05/14/24 22:00	1657		1. L1736414-02	
INFLUENT S47273311*	WW	TX	05/14/24 22:00	604.1	604.1	2. L1736414-02	
INFLUENT S47273309 S47273311* S47273314 S47273315	WW	TX	05/14/24 22:00	608		3. L1736414-02	
INFLUENT S47273296 S47273311* S47273316 S47273317	WW	TX	05/14/24 22:00	615	615	4. L1736414-02	
INFLUENT S47273298 S47273299 S47273311*	WW	TX	05/14/24 22:00	617	617	5. L1736414-02	
INFLUENT S47273311*	WW	TX	05/14/24 22:00	632	632	6. L1736414-02	

*– Container used for multiple Samples and/or Analyses

Relinquished by: Aysen Ramos/PACE **Date** 5/17/24 1700
Recieved by: Fedex **Date** 5/17/24 1700
Relinquished by: Fedex **Date** 5/18/24 1030
Recieved by: **Date** 5/18/24 1030


ORIGIN ID:DNEA (972) 727-1123
PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY DR #190
ALLEN TX 75013
UNITED STATES US
TO SAMPLE RECEIVING
ANALAB
2600 DUDLEY RD
KILGORE TX 75662
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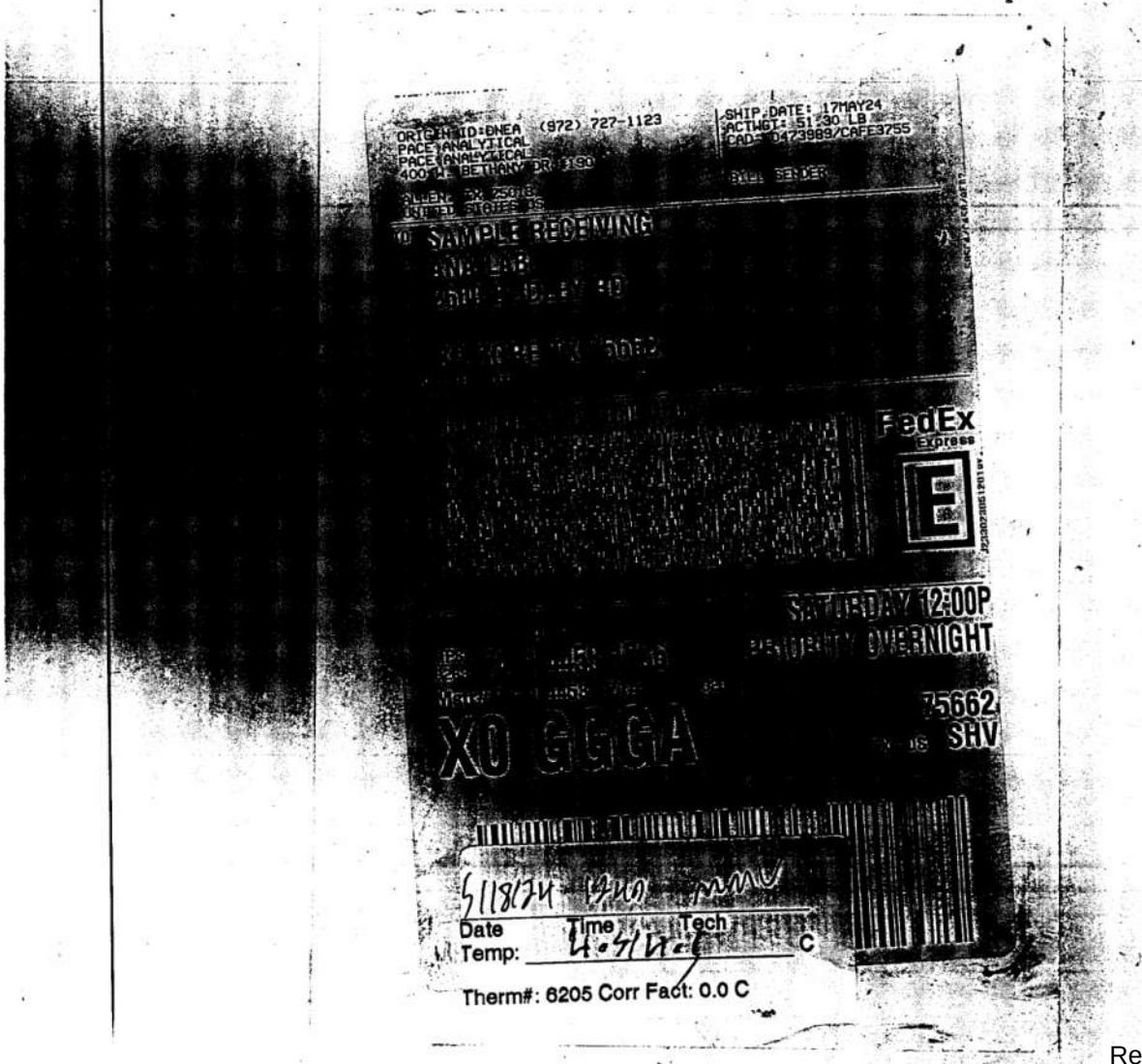
SATURDAY 12:00P
PRIORITY OVERNIGHT
75662
TX-US SHV
Date
Time
Tech
Temp:
C
Therm#: 6205 Corr Fact: 0.0 C

[redacted]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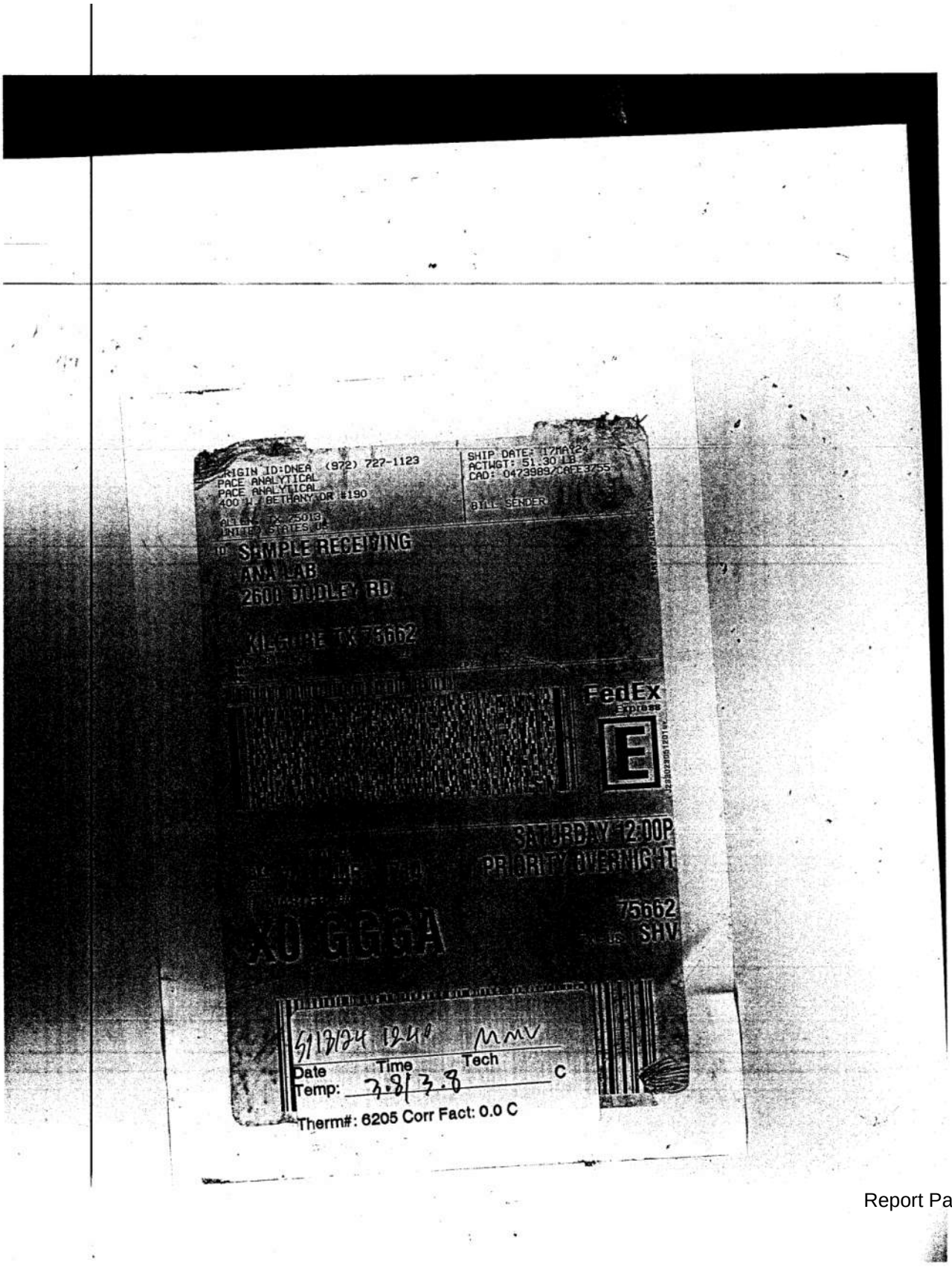
PACE ANALYTICAL
400 W BETHANY DR STE 190
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 0473989/CAFE3705
BILL SENDER
SAMPLE RECEIVING
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO GGGA
75662
SHV
511874 1240 MMU
Date Time Tech
Temp: 4.5 Incf C
Therm#: 6205 Corr Fact: 0.0 C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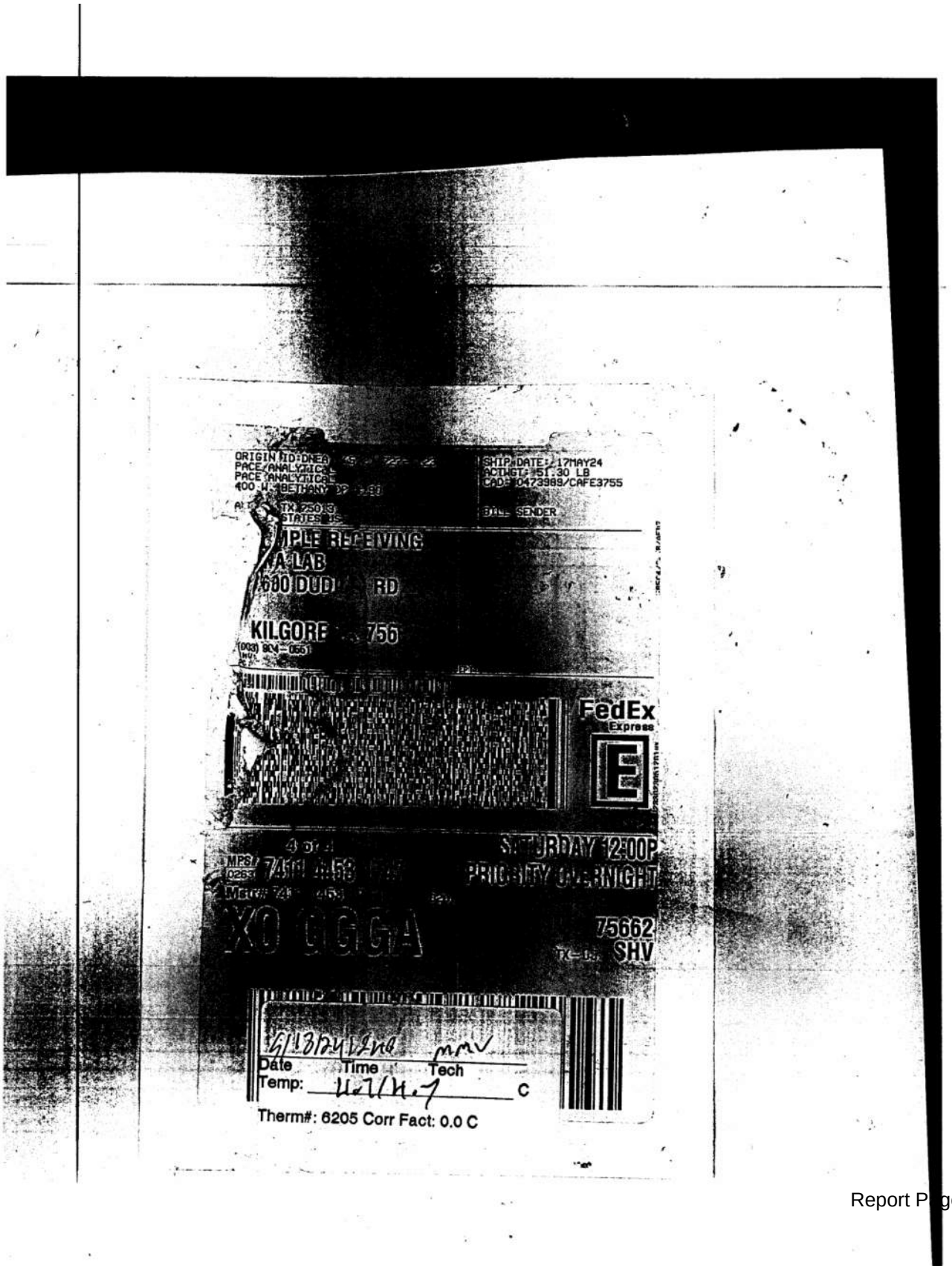
PACE ANALYTICAL
400 W BETHANY DR #190
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 0473989/CAFE3755
BILL SENDER
SAMPLE RECEIVING
ANALAB
2600 DUDLEY RD
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
XD GGGA
75662
SHV
5/18/24 1240 MMV
Date Time Tech
Temp: 3.8 3.8 C
Therm#: 6205 Corr Fact: 0.0 C


ORIGIN ID:DNEA
PACE ANALYTICAL
PACE ANALYTICAL
400 W BETHANY DR
TX 75013
STATES US
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 0473989/CAFE3755
BILL SENDER
MPLE RECEIVING
A LAB
680 DUD RD
KILGORE 756
(903) 804-0561
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO GGGA
75662
TX-US SHV
Date
Time
Tech
Temp:
C
Therm#: 6205 Corr Fact: 0.0 C

ANALYTICAL REPORT

June 11, 2024

City of Paris

Sample Delivery Group:	L1736404
Samples Received:	05/15/2024
Project Number:	
Description:	Effluent - Wastewater Treatment Plant

Report To: Kenda Fortner
PO Box 9037
Paris, TX 75461

Entire Report Reviewed By:

Katie Ingram
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

EFFLUENT L1736404-01 WW

Collected by: BRAD SULSAR
Collected date/time: 05/14/24 22:00
Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 420.1	WG2292600	1	05/24/24 09:29	05/24/24 18:02	KCM	Allen, TX
Wet Chemistry by Method 4500CN-E	WG2287485	1	05/16/24 10:00	05/16/24 17:06	KCM	Allen, TX
Wet Chemistry by Method 4500CN-G	WG2287485	1	05/16/24 17:06	05/16/24 17:06	KCM	Allen, TX
Volatile Organic Compounds (GC/MS) by Method 624.1	WG2288640	1	05/17/24 16:30	05/17/24 16:30	ZST	Allen, TX

EFFLUENT L1736404-02 WW

Collected by: BRAD SULSAR
Collected date/time: 05/14/24 22:00
Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2287044	1	05/18/24 13:39	05/18/24 13:39	EIG	Allen, TX
Calculated Results	WG2287580	1	05/17/24 13:15	05/17/24 13:15	NA	Allen, TX
Gravimetric Analysis by Method 2540C	WG2287066	1	05/15/24 15:22	05/15/24 16:30	QQT	Allen, TX
Wet Chemistry by Method 300.0	WG2290774	1	05/27/24 00:05	05/27/24 00:05	DLH	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr-B	WG2286601	1	05/15/24 15:09	05/15/24 15:09	KCM	Allen, TX
Wet Chemistry by Method 351.2	WG2288271	1	05/17/24 10:58	05/18/24 13:39	EIG	Allen, TX
Wet Chemistry by Method 353.2	WG2287044	1	05/15/24 18:16	05/15/24 18:16	EIG	Allen, TX
Wet Chemistry by Method EPA 625.1 Screen	WG2298499	1	05/21/24 17:19	05/21/24 17:19	XLY	Allen, TX
Wet Chemistry by Method SM4500NH3H	WG2291837	1	05/23/24 15:14	05/23/24 15:14	EIG	Allen, TX
Metals (ICPMS) by Method 200.8	WG2287580	1	05/16/24 11:14	05/17/24 13:15	NA	Allen, TX
Metals (ICPMS) by Method 200.8	WG2287580	1	05/16/24 11:14	05/20/24 20:02	NA	Allen, TX
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2289670	1	05/20/24 10:13	05/21/24 17:19	XLY	Allen, TX
Subcontracted Analyses	WG2288496	1	06/04/24 00:00	06/04/24 00:00	JWW	Subcontract
Subcontracted Analyses	WG2288518	1	06/01/24 00:00	06/01/24 00:00	JWW	Green Bay, WI 54302

EFFLUENT LL HG BLANK L1736404-03 WW

Collected by: BRAD SULSAR
Collected date/time: 05/15/24 07:30
Received date/time: 05/15/24 11:05

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2288518	1	06/01/24 00:00	06/01/24 00:00	JWW	Green Bay, WI 54302

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Katie Ingram
Project Manager

Project Narrative

L1736404 -02, -03 contains subout data that is included after the chain of custody.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1736404-02	EFFLUENT	3500Cr-B

Wet Chemistry by Method 420.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Phenols by 4AAP	ND		0.0100	1	05/24/2024 18:02	WG2292600

Wet Chemistry by Method 4500CN-E

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide	ND		0.0100	1	05/16/2024 17:06	WG2287485

Wet Chemistry by Method 4500CN-G

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Cyanide,amenable	ND		0.0100	1	05/16/2024 17:06	WG2287485

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,1,2,2-Tetrachloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,1,2-Trichloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,1-Dichloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,1-Dichloroethene	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,2-Dibromoethane	ND		0.00200	1	05/17/2024 16:30	WG2288640
1,2-Dichlorobenzene	ND		0.00200	1	05/17/2024 16:30	WG2288640
1,2-Dichloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,2-Dichloropropane	ND		0.00200	1	05/17/2024 16:30	WG2288640
1,3-Dichlorobenzene	ND		0.00500	1	05/17/2024 16:30	WG2288640
1,4-Dichlorobenzene	ND		0.00200	1	05/17/2024 16:30	WG2288640
2-Butanone (MEK)	ND		0.0250	1	05/17/2024 16:30	WG2288640
2-Chloroethyl vinyl ether	ND		0.0100	1	05/17/2024 16:30	WG2288640
Acetone	ND		0.0500	1	05/17/2024 16:30	WG2288640
Acrolein	ND		0.0100	1	05/17/2024 16:30	WG2288640
Acrylonitrile	ND		0.0100	1	05/17/2024 16:30	WG2288640
Benzene	ND		0.00500	1	05/17/2024 16:30	WG2288640
Bromodichloromethane	0.00730		0.00200	1	05/17/2024 16:30	WG2288640
Bromoform	ND		0.0100	1	05/17/2024 16:30	WG2288640
Bromomethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
Carbon tetrachloride	ND		0.00200	1	05/17/2024 16:30	WG2288640
Chlorobenzene	ND		0.0100	1	05/17/2024 16:30	WG2288640
Chloroethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
Chloroform	0.0345		0.00500	1	05/17/2024 16:30	WG2288640
Chloromethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
cis-1,3-Dichloropropene	ND		0.0100	1	05/17/2024 16:30	WG2288640
Dibromochloromethane	ND		0.00500	1	05/17/2024 16:30	WG2288640
Ethylbenzene	ND		0.00200	1	05/17/2024 16:30	WG2288640
Isopropyl acetate	ND		0.00500	1	05/17/2024 16:30	WG2288640
m&p-Xylene	ND		0.00400	1	05/17/2024 16:30	WG2288640
Methyl tert-butyl ether	ND		0.00500	1	05/17/2024 16:30	WG2288640
Methylene Chloride	ND		0.0200	1	05/17/2024 16:30	WG2288640
Naphthalene	ND		0.0100	1	05/17/2024 16:30	WG2288640
Tetrachloroethene	ND		0.0100	1	05/17/2024 16:30	WG2288640
Toluene	0.00718		0.00500	1	05/17/2024 16:30	WG2288640
Total 1,3-Dichloropropene	ND		0.0100	1	05/17/2024 16:30	WG2288640
Total Trihalomethanes	0.0434		0.00500	1	05/17/2024 16:30	WG2288640
trans-1,2-Dichloroethene	ND		0.0100	1	05/17/2024 16:30	WG2288640
trans-1,3-Dichloropropene	ND		0.00500	1	05/17/2024 16:30	WG2288640

Volatile Organic Compounds (GC/MS) by Method 624.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Trichloroethene	ND		0.00500	1	05/17/2024 16:30	WG2288640
Trichlorofluoromethane	ND		0.0100	1	05/17/2024 16:30	WG2288640
Vinyl chloride	ND		0.00500	1	05/17/2024 16:30	WG2288640
Xylenes, Total	ND		0.00600	1	05/17/2024 16:30	WG2288640
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*05/17/2024 16:30*	WG2288640
(S) 4-Bromofluorobenzene	*102*		*70.0-130*		*05/17/2024 16:30*	WG2288640
(S) Toluene-d8	*100*		*70.0-130*		*05/17/2024 16:30*	WG2288640

Calculated Results

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium,Trivalent	ND	J	0.00300	1	05/17/2024 13:15	WG2287580
Nitrogen	4.83		0.0500	1	05/18/2024 13:39	WG2287044

Gravimetric Analysis by Method 2540C

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Total Dissolved Solids	399		25.0	1	05/15/2024 16:30	WG2287066

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	35.6		1.00	1	05/27/2024 00:05	WG2290774
Fluoride	0.229		0.150	1	05/27/2024 00:05	WG2290774
Sulfate	101		5.00	1	05/27/2024 00:05	WG2290774

Wet Chemistry by Method 3500Cr-B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		0.00300	1	05/15/2024 15:09	WG2286601

Wet Chemistry by Method 351.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1.18		0.250	1	05/18/2024 13:39	WG2288271

Wet Chemistry by Method 353.2

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	3.65		0.0500	1	05/15/2024 18:16	WG2287044
Nitrate	3.65		0.0500	1	05/15/2024 18:16	WG2287044
Nitrite	ND		0.0500	1	05/15/2024 18:16	WG2287044

Wet Chemistry by Method EPA 625.1 Screen

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
2,3,7,8-TCDD	Absent			1	05/21/2024 17:19	WG2298499

Wet Chemistry by Method SM4500NH3H

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.132		0.100	1	05/23/2024 15:14	WG2291837

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.117		0.00250	1	05/20/2024 20:02	WG2287580
Antimony	ND		0.00500	1	05/17/2024 13:15	WG2287580
Arsenic	0.00159	B	0.000500	1	05/17/2024 13:15	WG2287580
Barium	0.0288		0.00300	1	05/17/2024 13:15	WG2287580
Beryllium	ND		0.000500	1	05/17/2024 13:15	WG2287580
Cadmium	ND		0.00100	1	05/20/2024 20:02	WG2287580
Chromium	ND		0.00300	1	05/17/2024 13:15	WG2287580

Metals (ICPMS) by Method 200.8

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Copper	0.0104		0.00200	1	05/17/2024 13:15	WG2287580
Lead	ND		0.000500	1	05/17/2024 13:15	WG2287580
Molybdenum	ND		0.00100	1	05/17/2024 13:15	WG2287580
Nickel	0.00735		0.00200	1	05/17/2024 13:15	WG2287580
Selenium	ND		0.00500	1	05/17/2024 13:15	WG2287580
Silver	ND		0.000500	1	05/17/2024 13:15	WG2287580
Thallium	ND		0.000500	1	05/17/2024 13:15	WG2287580
Zinc	0.0225		0.00500	1	05/17/2024 13:15	WG2287580

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4,5-Tetrachlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
1,2,4-Trichlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
1,2-Dichlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
1,3-Dichlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
1,4-Dichlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,2-Oxybis(1-Chloropropane)	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,4,5-Trichlorophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,4,6-Trichlorophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,4-Dichlorophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,4-Dimethylphenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
2,4-Dinitrophenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
2,4-Dinitrotoluene	ND		0.00500	1	05/21/2024 17:19	WG2289670
2,6-Dichlorophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
2,6-Dinitrotoluene	ND		0.00500	1	05/21/2024 17:19	WG2289670
2-Chloronaphthalene	ND		0.00250	1	05/21/2024 17:19	WG2289670
2-Chlorophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
2-Methylphenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
2-Nitrophenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
3&4-Methyl Phenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
3,3-Dichlorobenzidine	ND		0.00500	1	05/21/2024 17:19	WG2289670
4,6-Dinitro-2-methylphenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
4-Bromophenyl-phenylether	ND		0.00250	1	05/21/2024 17:19	WG2289670
4-Chloro-3-methylphenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
4-Chlorophenyl-phenylether	ND		0.00250	1	05/21/2024 17:19	WG2289670
4-Nitrophenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
Acenaphthene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Acenaphthylene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Acetophenone	ND		0.00250	1	05/21/2024 17:19	WG2289670
Alpha-Terpineol	ND		0.00250	1	05/21/2024 17:19	WG2289670
Aniline	ND		0.00250	1	05/21/2024 17:19	WG2289670
Anthracene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Atrazine	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzidine	ND		0.0100	1	05/21/2024 17:19	WG2289670
Benzo(a)anthracene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzo(a)pyrene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzo(b)fluoranthene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzo(g,h,i)perylene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzo(k)fluoranthene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Benzoic acid	ND		0.0100	1	05/21/2024 17:19	WG2289670
Benzylbutyl phthalate	ND		0.00250	1	05/21/2024 17:19	WG2289670
Bis(2-chlorethoxy)methane	ND		0.00250	1	05/21/2024 17:19	WG2289670
Bis(2-chloroethyl)ether	ND		0.00250	1	05/21/2024 17:19	WG2289670
Bis(2-chloroisopropyl)ether	ND		0.00250	1	05/21/2024 17:19	WG2289670
Bis(2-Ethylhexyl)phthalate	ND		0.00500	1	05/21/2024 17:19	WG2289670

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Carbazole	ND		0.00250	1	05/21/2024 17:19	WG2289670
Chrysene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Di-n-butyl phthalate	ND		0.00250	1	05/21/2024 17:19	WG2289670
Di-n-octyl phthalate	ND		0.00250	1	05/21/2024 17:19	WG2289670
Dibenz(a,h)anthracene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Dibenzofuran	ND		0.00250	1	05/21/2024 17:19	WG2289670
Diethyl phthalate	ND		0.00250	1	05/21/2024 17:19	WG2289670
Dimethyl phthalate	ND		0.00250	1	05/21/2024 17:19	WG2289670
Fluoranthene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Fluorene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Hexachloro-1,3-butadiene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Hexachlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Hexachlorocyclopentadiene	ND		0.0100	1	05/21/2024 17:19	WG2289670
Hexachloroethane	ND		0.00250	1	05/21/2024 17:19	WG2289670
1,2-Diphenylhydrazine	ND	N2	0.00250	1	05/21/2024 17:19	WG2289670
Indeno(1,2,3-cd)pyrene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Isophorone	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Decane	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Nitrosodi-n-butylamine	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Nitrosodi-n-propylamine	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Nitrosodiethylamine	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Nitrosodimethylamine	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Nitrosodiphenylamine	ND		0.00250	1	05/21/2024 17:19	WG2289670
n-Octadecane	ND		0.00250	1	05/21/2024 17:19	WG2289670
Naphthalene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Nitrobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Nonylphenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
Pentachlorobenzene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Pentachlorophenol	ND		0.00500	1	05/21/2024 17:19	WG2289670
Phenanthrene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Phenol	ND		0.00250	1	05/21/2024 17:19	WG2289670
Pyrene	ND		0.00250	1	05/21/2024 17:19	WG2289670
Pyridine	ND		0.00250	1	05/21/2024 17:19	WG2289670
Total Cresols	ND		0.00750	1	05/21/2024 17:19	WG2289670
(S) 2,4,6-Tribromophenol	*70.4*		*29.0-132*		*05/21/2024 17:19*	WG2289670
(S) 2-Fluorobiphenyl	*83.0*		*26.0-102*		*05/21/2024 17:19*	WG2289670
(S) 2-Fluorophenol	*38.9*		*10.0-66.0*		*05/21/2024 17:19*	WG2289670
(S) Nitrobenzene-d5	*76.2*		*15.0-106*		*05/21/2024 17:19*	WG2289670
(S) p-Terphenyl-d14	*74.1*		*10.0-120*		*05/21/2024 17:19*	WG2289670
(S) Phenol-D6	*25.5*		*10.0-54.0*		*05/21/2024 17:19*	WG2289670

Method Blank (MB)

(MB) R4070401-1 05/15/24 16:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Dissolved Solids	U		25.0	25.0

L1736195-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736195-01 05/15/24 16:30 • (DUP) R4070401-3 05/15/24 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	848	828	1	2.39		10

L1736197-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736197-01 05/15/24 16:30 • (DUP) R4070401-4 05/15/24 16:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Dissolved Solids	2620	3670	1	33.6	J3	10

Laboratory Control Sample (LCS)

(LCS) R4070401-2 05/15/24 16:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Dissolved Solids	2410	2590	108	85.0-115	

Method Blank (MB)

(MB) R4075025-1 05/26/24 21:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00
Fluoride	U		0.0640	0.150
Sulfate	U		0.594	5.00

L1736428-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1736428-01 05/27/24 00:38 • (DUP) R4075025-3 05/27/24 00:54

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.12	8.89	1	2.59		15
Fluoride	0.292	0.273	1	6.72		15
Sulfate	5.70	5.66	1	0.604		15

L1737348-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1737348-09 05/27/24 10:12 • (DUP) R4075025-5 05/27/24 10:29

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	23.2	22.5	1	3.02		15
Fluoride	0.266	ND	1	76.7	P1	15
Sulfate	32.3	31.4	1	3.02		15

Laboratory Control Sample (LCS)

(LCS) R4075025-2 05/26/24 21:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	38.8	97.0	90.0-110	
Fluoride	8.00	7.62	95.2	90.0-110	
Sulfate	40.0	38.7	96.8	90.0-110	

L1736428-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1736428-01 05/27/24 00:38 • (MS) R4075025-4 05/27/24 01:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	9.12	47.0	94.6	1	80.0-120	
Fluoride	8.00	0.292	8.10	97.6	1	80.0-120	
Sulfate	40.0	5.70	43.4	94.4	1	80.0-120	

L1737348-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1737348-09 05/27/24 10:12 • (MS) R4075025-6 05/27/24 10:45 • (MSD) R4075025-7 05/27/24 11:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	23.2	57.3	58.3	85.2	87.8	1	80.0-120			1.82	15
Fluoride	8.00	0.266	7.75	8.08	93.5	97.7	1	80.0-120			4.19	15
Sulfate	40.0	32.3	64.4	66.1	80.1	84.4	1	80.0-120			2.61	15

Method Blank (MB)

(MB) R4069997-1 05/15/24 15:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium,Hexavalent	U		0.00200	0.00300

Laboratory Control Sample (LCS)

(LCS) R4069997-2 05/15/24 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chromium,Hexavalent	0.200	0.200	99.8	85.0-115	

L1735660-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735660-01 05/15/24 15:09 • (MS) R4069997-3 05/15/24 15:09 • (MSD) R4069997-4 05/15/24 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.200	ND	0.157	0.154	78.4	77.1	1	10.0-120			1.68	20

Sample Narrative:

OS: Sample preserved in lab w/in 24 hrs of collection

L1735982-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735982-02 05/15/24 15:09 • (MS) R4069997-5 05/15/24 15:09 • (MSD) R4069997-6 05/15/24 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	0.200	ND	0.187	0.188	93.3	94.1	1	10.0-120			0.930	20

Sample Narrative:

OS: Sample preserved in lab w/in 24 hrs of collection

Method Blank (MB)

(MB) R4071774-1 05/18/24 13:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	U		0.140	0.250

Laboratory Control Sample (LCS)

(LCS) R4071774-2 05/18/24 13:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	4.00	4.10	103	90.0-110	

L1735789-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735789-01 05/18/24 13:23 • (MS) R4071774-3 05/18/24 13:52 • (MSD) R4071774-4 05/18/24 13:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	2.69	7.95	7.91	132	131	1	90.0-110	J5	J5	0.504	20

L1735789-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735789-02 05/18/24 13:25 • (MS) R4071774-5 05/18/24 13:55 • (MSD) R4071774-6 05/18/24 13:56

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Kjeldahl Nitrogen, TKN	4.00	0.724	5.19	5.76	112	126	1	90.0-110	J5	J5	10.4	20

Method Blank (MB)

(MB) R4070436-1 05/15/24 18:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0300	0.0500
Nitrite	U		0.0300	0.0500

Laboratory Control Sample (LCS)

(LCS) R4070436-2 05/15/24 18:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.63	105	90.0-110	
Nitrite	2.50	2.65	106	90.0-110	

L1736204-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736204-02 05/15/24 18:14 • (MS) R4070436-3 05/15/24 18:20 • (MSD) R4070436-4 05/15/24 18:20

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	2.50	ND	2.64	2.66	106	106	1	90.0-110			0.755	20
Nitrite	2.50	ND	2.65	2.63	106	105	1	90.0-110			0.758	20

Method Blank (MB)

(MB) R4073898-1 05/24/24 18:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Phenols by 4AAP	U		0.00550	0.0100

Laboratory Control Sample (LCS)

(LCS) R4073898-2 05/24/24 18:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Phenols by 4AAP	0.133	0.142	107	80.0-120	

L1738588-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1738588-02 05/24/24 18:02 • (MS) R4073898-3 05/24/24 18:02 • (MSD) R4073898-4 05/24/24 18:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Total Phenols by 4AAP	0.133	ND	0.117	0.120	82.0	83.9	1	80.0-120			2.15	20

Method Blank (MB)

(MB) R4070658-1 05/16/24 17:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.00430	0.0100

Laboratory Control Sample (LCS)

(LCS) R4070658-2 05/16/24 17:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.0930	93.0	85.0-115	

L1735878-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735878-02 05/16/24 17:06 • (MS) R4070658-3 05/16/24 17:06 • (MSD) R4070658-4 05/16/24 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	ND	ND	0.000	0.000	1	85.0-115	J6	J6	0.000	20

L1736514-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736514-08 05/16/24 17:06 • (MS) R4070658-5 05/16/24 17:06 • (MSD) R4070658-6 05/16/24 17:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	0.100	ND	0.0851	0.0792	85.1	79.2	1	85.0-115		J6	7.17	20

Method Blank (MB)

(MB) R4073459-1 05/23/24 14:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	U		0.0280	0.100

Laboratory Control Sample (LCS)

(LCS) R4073459-2 05/23/24 14:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	5.00	5.00	100	80.0-120	

L1735081-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735081-01 05/23/24 15:00 • (MS) R4073459-3 05/23/24 14:53 • (MSD) R4073459-4 05/23/24 14:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.187	5.08	5.10	97.9	98.3	1	80.0-120			0.393	20

L1735644-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1735644-02 05/23/24 15:03 • (MS) R4073459-5 05/23/24 14:56 • (MSD) R4073459-6 05/23/24 14:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	5.00	0.634	5.60	5.57	99.3	98.7	1	80.0-120			0.537	20

Method Blank (MB)

(MB) R4071519-1 05/17/24 12:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000580	0.00500
Arsenic	0.000598		0.000100	0.000500
Barium	U		0.000440	0.00300
Beryllium	0.0000610	J	0.0000600	0.000500
Chromium	U		0.000510	0.00300
Copper	U		0.000900	0.00200
Lead	U		0.000140	0.000500
Molybdenum	U		0.000530	0.00100
Nickel	U		0.000640	0.00200
Selenium	U		0.000740	0.00500
Silver	U		0.0000800	0.000500
Thallium	U		0.000190	0.000500
Zinc	U		0.00265	0.00500

Method Blank (MB)

(MB) R4072026-1 05/20/24 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	0.00619		0.00186	0.00250
Cadmium	U		0.000120	0.00100

Laboratory Control Sample (LCS)

(LCS) R4071519-2 05/17/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	0.100	0.0963	96.3	85.0-115	
Arsenic	0.100	0.0956	95.6	85.0-115	
Barium	0.100	0.0956	95.6	85.0-115	
Beryllium	0.100	0.0933	93.3	85.0-115	
Chromium	0.100	0.0979	97.9	85.0-115	
Copper	0.100	0.0977	97.7	85.0-115	
Lead	0.100	0.0992	99.2	85.0-115	
Molybdenum	0.100	0.0961	96.1	85.0-115	
Nickel	0.100	0.0966	96.6	85.0-115	
Selenium	0.100	0.0922	92.2	85.0-115	
Silver	0.0500	0.0487	97.5	85.0-115	
Thallium	0.100	0.0966	96.6	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R4071519-2 05/17/24 12:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Zinc	0.100	0.0972	97.2	85.0-115	

Laboratory Control Sample (LCS)

(LCS) R4072026-2 05/20/24 19:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1.00	0.973	97.3	85.0-115	
Cadmium	0.100	0.100	100	85.0-115	

L1736026-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736026-01 05/17/24 12:31 • (MS) R4071519-3 05/17/24 12:38 • (MSD) R4071519-4 05/17/24 12:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.100	ND	0.0987	0.101	97.5	99.8	1	70.0-130			2.33	20
Arsenic	0.100	0.0164	0.113	0.117	97.1	101	1	70.0-130			3.04	20
Barium	0.100	0.449	0.566	0.577	117	128	1	70.0-130			1.86	20
Chromium	0.100	0.0244	0.121	0.124	96.7	99.2	1	70.0-130			2.01	20
Copper	0.100	0.0284	0.123	0.126	94.9	97.7	1	70.0-130			2.20	20
Lead	0.100	ND	0.0957	0.0975	95.2	97.0	1	70.0-130			1.86	20
Nickel	0.100	0.0696	0.167	0.169	97.0	99.7	1	70.0-130			1.59	20
Selenium	0.100	0.0164	0.107	0.111	91.0	94.2	1	70.0-130			3.02	20
Silver	0.0500	ND	0.0462	0.0469	92.0	93.4	1	70.0-130			1.49	20
Zinc	0.100	0.00710	0.0984	0.102	91.3	94.7	1	70.0-130			3.34	20

Method Blank (MB)

(MB) R4071566-2 05/17/24 13:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	U		0.00335	0.00500
1,1,2,2-Tetrachloroethane	U		0.000596	0.00500
1,1,2-Trichloroethane	U		0.00145	0.00500
1,1-Dichloroethane	U		0.00292	0.00500
1,1-Dichloroethene	U		0.00367	0.00500
1,2-Dibromoethane	U		0.000549	0.00200
1,2-Dichlorobenzene	U		0.00172	0.00200
1,2-Dichloroethane	U		0.00195	0.00500
1,2-Dichloropropane	U		0.000804	0.00200
1,3-Dichlorobenzene	U		0.00419	0.00500
1,4-Dichlorobenzene	U		0.00173	0.00200
2-Butanone (MEK)	U		0.00822	0.0250
2-Chloroethyl vinyl ether	U		0.00652	0.0100
Acetone	U		0.0337	0.0500
Acrolein	U		0.00544	0.0100
Acrylonitrile	U		0.00709	0.0100
Benzene	U		0.00207	0.00500
Bromodichloromethane	U		0.00179	0.00200
Bromoform	U		0.000960	0.0100
Bromomethane	U		0.00347	0.00500
Carbon tetrachloride	U		0.00159	0.00200
Chlorobenzene	U		0.00276	0.0100
Chloroethane	U		0.00296	0.00500
Chloroform	U		0.00212	0.00500
Chloromethane	U		0.00361	0.00500
cis-1,3-Dichloropropene	U		0.00492	0.0100
Dibromochloromethane	U		0.00327	0.00500
Ethylbenzene	U		0.000401	0.00200
Isopropyl acetate	U		0.00113	0.00500
m&p-Xylene	U		0.00149	0.00400
Methyl tert-butyl ether	U		0.00338	0.00500
Methylene Chloride	U		0.0118	0.0200
Naphthalene	U		0.00238	0.0100
Tetrachloroethene	U		0.00486	0.0100
Toluene	U		0.00219	0.00500
Total 1,3-Dichloropropene	U		0.00372	0.0100
Total Trihalomethanes	U		0.00338	0.00500
trans-1,2-Dichloroethene	U		0.00501	0.0100
trans-1,3-Dichloropropene	U		0.00460	0.00500
Trichloroethene	U		0.00262	0.00500

Method Blank (MB)

(MB) R4071566-2 05/17/24 13:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichlorofluoromethane	U		0.00252	0.0100
Vinyl chloride	U		0.00466	0.00500
Xylenes, Total	U		0.00342	0.00600
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*
(S) 4-Bromofluorobenzene	*100*			*70.0-130*
(S) Toluene-d8	*97.5*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4071566-1 05/17/24 13:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1,1-Trichloroethane	0.0200	0.0213	106	70.0-130	
1,1,2,2-Tetrachloroethane	0.0200	0.0219	110	60.0-140	
1,1,2-Trichloroethane	0.0200	0.0211	105	70.0-130	
1,1-Dichloroethane	0.0200	0.0207	104	70.0-130	
1,1-Dichloroethene	0.0200	0.0195	97.5	50.0-150	
1,2-Dibromoethane	0.0200	0.0220	110	70.0-130	
1,2-Dichlorobenzene	0.0200	0.0207	104	65.0-135	
1,2-Dichloroethane	0.0200	0.0206	103	70.0-130	
1,2-Dichloropropane	0.0200	0.0209	105	35.0-165	
1,3-Dichlorobenzene	0.0200	0.0211	105	70.0-130	
1,4-Dichlorobenzene	0.0200	0.0203	102	65.0-135	
2-Butanone (MEK)	0.100	0.123	123	70.0-130	
2-Chloroethyl vinyl ether	0.100	0.0957	95.7	1.00-225	
Acetone	0.100	0.115	115	70.0-130	
Acrolein	0.100	0.101	101	64.0-139	
Acrylonitrile	0.100	0.112	112	67.0-136	
Benzene	0.0200	0.0210	105	65.0-135	
Bromodichloromethane	0.0200	0.0218	109	65.0-135	
Bromoform	0.0200	0.0213	106	70.0-130	
Bromomethane	0.0200	0.0181	90.5	15.0-185	
Carbon tetrachloride	0.0200	0.0215	108	70.0-130	
Chlorobenzene	0.0200	0.0203	102	65.0-135	
Chloroethane	0.0200	0.0184	92.0	40.0-160	
Chloroform	0.0200	0.0209	105	70.0-135	
Chloromethane	0.0200	0.0197	98.5	1.00-205	
cis-1,3-Dichloropropene	0.0200	0.0188	94.0	25.0-175	
Dibromochloromethane	0.0200	0.0218	109	70.0-135	

Laboratory Control Sample (LCS)

(LCS) R4071566-1 05/17/24 13:03

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.0200	0.0207	104	60.0-140	
Isopropyl acetate	0.0200	0.0186	93.0	70.0-130	
m&p-Xylene	0.0400	0.0413	103	70.0-130	
Methyl tert-butyl ether	0.0200	0.0209	105	70.0-130	
Methylene Chloride	0.0200	0.0202	101	60.0-140	
Naphthalene	0.0200	0.0217	109	70.0-130	
Tetrachloroethene	0.0200	0.0210	105	70.0-130	
Toluene	0.0200	0.0205	103	70.0-130	
Total 1,3-Dichloropropene	0.0401	0.0391	97.5	70.0-130	
trans-1,2-Dichloroethene	0.0200	0.0207	104	70.0-130	
trans-1,3-Dichloropropene	0.0200	0.0203	102	50.0-150	
Trichloroethene	0.0200	0.0216	108	65.0-135	
Trichlorofluoromethane	0.0200	0.0212	106	50.0-150	
Vinyl chloride	0.0200	0.0197	98.5	5.00-195	
Xylenes, Total	0.0600	0.0616	103	70.0-130	
(S) 1,2-Dichloroethane-d4			*98.3*	*70.0-130*	
(S) 4-Bromofluorobenzene			*97.6*	*70.0-130*	
(S) Toluene-d8			*99.1*	*70.0-130*	

L1736414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-01 05/17/24 16:05 • (MS) R4071566-3 05/17/24 15:15 • (MSD) R4071566-4 05/17/24 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,1-Trichloroethane	0.0200	ND	0.0212	0.0210	106	105	1	52.0-162			0.948	36
1,1,2,2-Tetrachloroethane	0.0200	ND	0.0225	0.0233	113	117	1	46.0-157			3.49	61
1,1,2-Trichloroethane	0.0200	ND	0.0215	0.0210	108	105	1	52.0-150			2.35	45
1,1-Dichloroethane	0.0200	ND	0.0213	0.0208	106	104	1	59.0-155			2.38	40
1,1-Dichloroethene	0.0200	ND	0.0213	0.0201	106	101	1	1.00-234			5.80	32
1,2-Dibromoethane	0.0200	ND	0.0230	0.0226	115	113	1	70.0-130			1.75	20
1,2-Dichlorobenzene	0.0200	ND	0.0217	0.0210	109	105	1	18.0-190			3.28	57
1,2-Dichloroethane	0.0200	ND	0.0211	0.0207	105	104	1	49.0-155			1.91	49
1,2-Dichloropropane	0.0200	ND	0.0209	0.0210	105	105	1	1.00-210			0.477	55
1,3-Dichlorobenzene	0.0200	ND	0.0214	0.0203	107	102	1	59.0-156			5.28	43
1,4-Dichlorobenzene	0.0200	ND	0.0219	0.0211	110	105	1	18.0-190			3.72	57
2-Butanone (MEK)	0.100	ND	0.129	0.134	129	134	1	70.0-130		J5	3.80	20
2-Chloroethyl vinyl ether	0.100	ND	0.0839	0.0886	83.9	88.6	1	1.00-305			5.45	71
Acetone	0.100	0.113	0.218	0.224	105	111	1	70.0-130			2.71	20
Acrolein	0.100	ND	0.0178	0.0181	17.8	18.1	1	4.00-172			1.67	20

L1736414-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-01 05/17/24 16:05 • (MS) R4071566-3 05/17/24 15:15 • (MSD) R4071566-4 05/17/24 15:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.100	ND	0.117	0.120	117	120	1	22.0-189			2.53	20
Benzene	0.0200	ND	0.0212	0.0214	106	107	1	37.0-151			0.939	61
Bromodichloromethane	0.0200	ND	0.0211	0.0214	105	107	1	35.0-155			1.41	56
Bromoform	0.0200	ND	0.0215	0.0211	108	105	1	70.0-130			1.88	42
Bromomethane	0.0200	ND	0.0127	0.0142	63.5	71.0	1	15.0-185			11.2	61
Carbon tetrachloride	0.0200	ND	0.0205	0.0205	103	103	1	70.0-140			0.000	41
Chlorobenzene	0.0200	ND	0.0209	0.0202	105	101	1	37.0-160			3.41	53
Chloroethane	0.0200	ND	0.0204	0.0200	102	100	1	14.0-230			1.98	78
Chloroform	0.0200	0.00507	0.0266	0.0263	108	106	1	51.0-138			1.13	54
Chloromethane	0.0200	ND	0.0202	0.0197	101	98.5	1	1.00-273			2.51	20
cis-1,3-Dichloropropene	0.0200	ND	0.0189	0.0187	94.5	93.5	1	1.00-227			1.06	58
Dibromochloromethane	0.0200	ND	0.0220	0.0216	110	108	1	53.0-149			1.83	50
Ethylbenzene	0.0200	ND	0.0210	0.0207	105	104	1	37.0-162			1.44	63
Isopropyl acetate	0.0200	ND	0.0194	0.0195	97.0	97.5	1	70.0-130			0.514	20
m&p-Xylene	0.0400	ND	0.0424	0.0416	106	104	1	70.0-130			1.90	20
Methyl tert-butyl ether	0.0200	ND	0.0213	0.0213	106	106	1	70.0-130			0.000	20
Methylene Chloride	0.0200	ND	0.0203	0.0200	102	100	1	1.00-221			1.49	28
Naphthalene	0.0200	ND	0.0219	0.0232	110	116	1	70.0-130			5.76	20
Tetrachloroethene	0.0200	ND	0.0218	0.0212	109	106	1	64.0-148			2.79	39
Toluene	0.0200	ND	0.0225	0.0220	113	110	1	47.0-150			2.25	41
Total 1,3-Dichloropropene	0.0401	ND	0.0390	0.0381	97.3	95.0	1	70.0-130			2.33	20
trans-1,2-Dichloroethene	0.0200	ND	0.0217	0.0203	109	102	1	54.0-156			6.67	45
trans-1,3-Dichloropropene	0.0200	ND	0.0201	0.0194	101	97.0	1	17.0-183			3.54	86
Trichloroethene	0.0200	ND	0.0221	0.0206	111	103	1	70.0-157			7.03	48
Trichlorofluoromethane	0.0200	ND	0.0216	0.0210	108	105	1	17.0-181			2.82	84
Vinyl chloride	0.0200	ND	0.0206	0.0197	103	98.5	1	1.00-251			4.47	66
Xylenes, Total	0.0600	ND	0.0634	0.0622	106	104	1	70.0-130			1.91	20
(S) 1,2-Dichloroethane-d4					*99.0*	*100*		*70.0-130*				
(S) 4-Bromofluorobenzene					*98.8*	*99.0*		*70.0-130*				
(S) Toluene-d8					*99.1*	*97.9*		*70.0-130*				

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,2,4,5-Tetrachlorobenzene	U		0.00132	0.00250
1,2,4-Trichlorobenzene	U		0.00159	0.00250
1,2-Dichlorobenzene	U		0.00168	0.00250
1,3-Dichlorobenzene	U		0.00170	0.00250
1,4-Dichlorobenzene	U		0.00184	0.00250
2,2-Oxybis(1-Chloropropane)	U		0.00116	0.00250
2,4,5-Trichlorophenol	U		0.00193	0.00250
2,4,6-Trichlorophenol	U		0.00179	0.00250
2,4-Dichlorophenol	U		0.000820	0.00250
2,4-Dimethylphenol	U		0.00142	0.00500
2,4-Dinitrophenol	U		0.00115	0.00500
2,4-Dinitrotoluene	U		0.00265	0.00500
2,6-Dichlorophenol	U		0.00107	0.00250
2,6-Dinitrotoluene	U		0.00181	0.00500
2-Chloronaphthalene	U		0.00143	0.00250
2-Chlorophenol	U		0.000820	0.00250
2-Methylphenol	U		0.000760	0.00500
2-Nitrophenol	U		0.00169	0.00250
3&4-Methyl Phenol	U		0.000767	0.00250
3,3-Dichlorobenzidine	U		0.00265	0.00500
4,6-Dinitro-2-methylphenol	U		0.00150	0.00500
4-Bromophenyl-phenylether	U		0.00104	0.00250
4-Chloro-3-methylphenol	U		0.000865	0.00250
4-Chlorophenyl-phenylether	U		0.00140	0.00250
4-Nitrophenol	U		0.00164	0.00500
Acenaphthene	U		0.00134	0.00250
Acenaphthylene	U		0.00134	0.00250
Acetophenone	U		0.000788	0.00250
Alpha-Terpineol	U		0.000696	0.00250
Aniline	U		0.000536	0.00250
Anthracene	U		0.00111	0.00250
Atrazine	U		0.00167	0.00250
Benzidine	U		0.00311	0.0100
Benzo(a)anthracene	U		0.000933	0.00250
Benzo(a)pyrene	U		0.000941	0.00250
Benzo(b)fluoranthene	U		0.00102	0.00250
Benzo(g,h,i)perylene	U		0.00101	0.00250
Benzo(k)fluoranthene	U		0.000934	0.00250
Benzoic acid	U		0.00657	0.0100
Benzylbutyl phthalate	U		0.00143	0.00250

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Bis(2-chlorethoxy)methane	U		0.000991	0.00250
Bis(2-chloroethyl)ether	U		0.00101	0.00250
Bis(2-chloroisopropyl)ether	U		0.00116	0.00250
Bis(2-Ethylhexyl)phthalate	U		0.00318	0.00500
Carbazole	U		0.00106	0.00250
Chrysene	U		0.00102	0.00250
Di-n-butyl phthalate	U		0.00120	0.00250
Di-n-octyl phthalate	U		0.00174	0.00250
Dibenz(a,h)anthracene	U		0.00110	0.00250
Dibenzofuran	U		0.00120	0.00250
Diethyl phthalate	U		0.000915	0.00250
Dimethyl phthalate	U		0.000878	0.00250
Fluoranthene	U		0.00114	0.00250
Fluorene	U		0.00131	0.00250
Hexachloro-1,3-butadiene	U		0.00176	0.00250
Hexachlorobenzene	U		0.000972	0.00250
Hexachlorocyclopentadiene	U		0.00117	0.0100
Hexachloroethane	U		0.00188	0.00250
1,2-Diphenylhydrazine	U	N2	0.00124	0.00250
Indeno(1,2,3-cd)pyrene	U		0.000984	0.00250
Isophorone	U		0.00183	0.00250
n-Decane	U		0.00158	0.00250
n-Nitrosodi-n-butylamine	U		0.000735	0.00250
n-Nitrosodi-n-propylamine	U		0.00107	0.00250
n-Nitrosodiethylamine	U		0.000925	0.00250
n-Nitrosodimethylamine	U		0.000651	0.00250
n-Nitrosodiphenylamine	U		0.000829	0.00250
n-Octadecane	U		0.00128	0.00250
Naphthalene	U		0.00200	0.00250
Nitrobenzene	U		0.00124	0.00250
Nonylphenol	U		0.00286	0.00500
Pentachlorobenzene	U		0.00134	0.00250
Pentachlorophenol	U		0.00210	0.00500
Phenanthrene	U		0.00113	0.00250
Phenol	U		0.000967	0.00250
Pyrene	U		0.00115	0.00250
Pyridine	U		0.00117	0.00250
Total Cresols	U		0.00153	0.00750
(S) 2,4,6-Tribromophenol	*68.6*			*29.0-132*
(S) 2-Fluorobiphenyl	*81.7*			*26.0-102*

Method Blank (MB)

(MB) R4072304-1 05/21/24 12:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) 2-Fluorophenol	*40.8*			*10.0-66.0*
(S) Nitrobenzene-d5	*77.1*			*15.0-106*
(S) p-Terphenyl-d14	*85.3*			*10.0-120*
(S) Phenol-d6	*28.7*			*10.0-54.0*

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,4,5-Tetrachlorobenzene	0.0500	0.0361	72.2	31.0-120	
1,2,4-Trichlorobenzene	0.0500	0.0425	85.0	44.0-142	
1,2-Dichlorobenzene	0.0500	0.0418	83.6	27.0-120	
1,3-Dichlorobenzene	0.0500	0.0391	78.2	26.0-120	
1,4-Dichlorobenzene	0.0500	0.0370	74.0	26.0-120	
2,2-Oxybis(1-Chloropropane)	0.0500	0.0499	99.8	36.0-166	
2,4,5-Trichlorophenol	0.0500	0.0500	100	44.0-124	
2,4,6-Trichlorophenol	0.0500	0.0394	78.8	37.0-144	
2,4-Dichlorophenol	0.0500	0.0450	90.0	39.0-135	
2,4-Dimethylphenol	0.0500	0.0520	104	32.0-120	
2,4-Dinitrophenol	0.0500	0.0542	108	1.00-191	
2,4-Dinitrotoluene	0.0500	0.0409	81.8	39.0-139	
2,6-Dichlorophenol	0.0500	0.0414	82.8	26.0-120	
2,6-Dinitrotoluene	0.0500	0.0557	111	50.0-158	
2-Chloronaphthalene	0.0500	0.0382	76.4	60.0-120	
2-Chlorophenol	0.0500	0.0378	75.6	23.0-134	
2-Methylphenol	0.0500	0.0354	70.8	26.0-120	
2-Nitrophenol	0.0500	0.0405	81.0	29.0-182	
3&4-Methyl Phenol	0.0500	0.0338	67.6	27.0-120	
3,3-Dichlorobenzidine	0.100	0.0585	58.5	1.00-262	
4,6-Dinitro-2-methylphenol	0.0500	0.0477	95.4	1.00-181	
4-Bromophenyl-phenylether	0.0500	0.0427	85.4	53.0-127	
4-Chloro-3-methylphenol	0.0500	0.0436	87.2	22.0-147	
4-Chlorophenyl-phenylether	0.0500	0.0381	76.2	25.0-158	
4-Nitrophenol	0.0500	0.0227	45.4	1.00-132	
Acenaphthene	0.0500	0.0445	89.0	47.0-145	
Acenaphthylene	0.0500	0.0381	76.2	33.0-145	
Acetophenone	0.0500	0.0364	72.8	28.0-120	
Alpha-Terpineol	0.0500	0.0426	85.2	30.0-120	

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aniline	0.0500	0.0366	73.2	10.0-120	
Anthracene	0.0500	0.0431	86.2	27.0-133	
Atrazine	0.0500	0.0471	94.2	39.0-141	
Benzidine	0.100	0.0682	68.2	1.00-120	
Benzo(a)anthracene	0.0500	0.0441	88.2	33.0-143	
Benzo(a)pyrene	0.0500	0.0560	112	17.0-163	
Benzo(b)fluoranthene	0.0500	0.0528	106	24.0-159	
Benzo(g,h,i)perylene	0.0500	0.0437	87.4	1.00-219	
Benzo(k)fluoranthene	0.0500	0.0536	107	11.0-162	
Benzoic acid	0.100	0.0598	59.8	10.0-120	
Benzylbutyl phthalate	0.0500	0.0469	93.8	1.00-152	
Bis(2-chlorethoxy)methane	0.0500	0.0456	91.2	1.00-219	
Bis(2-chloroethyl)ether	0.0500	0.0409	81.8	33.0-185	
Bis(2-chloroisopropyl)ether	0.0500	0.0499	99.8	36.0-166	
Bis(2-Ethylhexyl)phthalate	0.0500	0.0461	92.2	8.00-158	
Carbazole	0.0500	0.0515	103	45.0-121	
Chrysene	0.0500	0.0417	83.4	17.0-168	
Di-n-butyl phthalate	0.0500	0.0460	92.0	1.00-120	
Di-n-octyl phthalate	0.0500	0.0470	94.0	4.00-146	
Dibenz(a,h)anthracene	0.0500	0.0537	107	1.00-227	
Dibenzofuran	0.0500	0.0372	74.4	42.0-120	
Diethyl phthalate	0.0500	0.0494	98.8	1.00-120	
Dimethyl phthalate	0.0500	0.0466	93.2	1.00-120	
Fluoranthene	0.0500	0.0418	83.6	26.0-137	
Fluorene	0.0500	0.0383	76.6	59.0-121	
Hexachloro-1,3-butadiene	0.0500	0.0406	81.2	24.0-120	
Hexachlorobenzene	0.0500	0.0458	91.6	1.00-152	
Hexachlorocyclopentadiene	0.0500	0.0456	91.2	10.0-120	
Hexachloroethane	0.0500	0.0381	76.2	40.0-120	
1,2-Diphenylhydrazine	0.0500	0.0358	71.6	37.0-125	N2
Indeno(1,2,3-cd)pyrene	0.0500	0.0402	80.4	1.00-171	
Isophorone	0.0500	0.0409	81.8	21.0-196	
n-Decane	0.0500	0.0357	71.4	10.0-127	
n-Nitrosodi-n-butylamine	0.0500	0.0430	86.0	39.0-127	
n-Nitrosodi-n-propylamine	0.0500	0.0469	93.8	1.00-230	
n-Nitrosodiethylamine	0.0500	0.0363	72.6	10.0-142	
n-Nitrosodimethylamine	0.0500	0.0199	39.8	10.0-120	
n-Nitrosodiphenylamine	0.0500	0.0366	73.2	44.0-120	
n-Octadecane	0.0500	0.0301	60.2	17.0-126	
Naphthalene	0.0500	0.0425	85.0	21.0-133	

Laboratory Control Sample (LCS)

(LCS) R4072304-2 05/21/24 13:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrobenzene	0.0500	0.0456	91.2	35.0-180	
Nonylphenol	0.0500	0.0516	103	57.0-136	
Pentachlorobenzene	0.0500	0.0426	85.2	10.0-151	
Pentachlorophenol	0.0500	0.0461	92.2	14.0-176	
Phenanthrene	0.0500	0.0446	89.2	54.0-120	
Phenol	0.0500	0.0169	33.8	5.00-120	
Pyrene	0.0500	0.0410	82.0	52.0-120	
Pyridine	0.0500	0.0147	29.4	10.0-120	
Total Cresols	0.100	0.0692	69.2	36.0-110	
(S) 2,4,6-Tribromophenol			*87.6*	*29.0-132*	
(S) 2-Fluorobiphenyl			*84.5*	*26.0-102*	
(S) 2-Fluorophenol			*39.7*	*10.0-66.0*	
(S) Nitrobenzene-d5			*76.9*	*15.0-106*	
(S) p-Terphenyl-d14			*92.5*	*10.0-120*	
(S) Phenol-d6			*33.2*	*10.0-54.0*	

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2,4,5-Tetrachlorobenzene	0.0481	ND	0.0192	0.0154	39.9	32.0	1	10.0-147			22.0	34
1,2,4-Trichlorobenzene	0.0481	ND	0.0193	0.0178	40.1	37.0	1	44.0-142	J6	J6	8.09	50
1,2-Dichlorobenzene	0.0481	ND	0.0171	0.0156	35.6	32.4	1	14.0-125			9.17	24
1,3-Dichlorobenzene	0.0481	ND	0.0156	0.0151	32.4	31.4	1	12.0-123			3.26	22
1,4-Dichlorobenzene	0.0481	ND	0.0160	0.0147	33.3	30.6	1	12.0-125			8.47	23
2,2-Oxybis(1-Chloropropane)	0.0481	ND	0.0214	0.0189	44.5	39.3	1	36.0-166			12.4	76
2,4,5-Trichlorophenol	0.0481	ND	0.0370	0.0269	76.9	55.9	1	15.0-160		J3	31.6	27
2,4,6-Trichlorophenol	0.0481	ND	0.0284	0.0215	59.0	44.7	1	37.0-144			27.7	58
2,4-Dichlorophenol	0.0481	ND	0.0220	0.0165	45.7	34.3	1	39.0-135		J6	28.6	50
2,4-Dimethylphenol	0.0481	ND	0.0237	0.0192	49.3	39.9	1	32.0-120			21.0	58
2,4-Dinitrophenol	0.0481	ND	0.0234	0.0137	48.6	28.5	1	1.00-191			52.3	132
2,4-Dinitrotoluene	0.0481	ND	0.0286	0.0251	59.5	52.2	1	39.0-139			13.0	42
2,6-Dichlorophenol	0.0481	ND	0.0190	0.0152	39.5	31.6	1	60.0-140	J6	J6	22.2	30
2,6-Dinitrotoluene	0.0481	ND	0.0397	0.0343	82.5	71.3	1	50.0-158			14.6	48
2-Chloronaphthalene	0.0481	ND	0.0215	0.0176	44.7	36.6	1	60.0-120	J6	J6	19.9	24
2-Chlorophenol	0.0481	ND	0.0137	0.0103	28.5	21.4	1	23.0-134		J6	28.3	61
2-Methylphenol	0.0481	ND	0.0114	0.00946	23.7	19.7	1	14.0-120			18.6	29
2-Nitrophenol	0.0481	ND	0.0198	0.0162	41.2	33.7	1	29.0-182			20.0	55

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
3&4-Methyl Phenol	0.0481	ND	0.0107	0.00898	22.2	18.7	1	13.0-124			17.5	26
3,3-Dichlorobenzidine	0.0962	ND	0.0350	0.0331	36.4	34.4	1	1.00-262			5.58	108
4,6-Dinitro-2-methylphenol	0.0481	ND	0.0245	0.0183	50.9	38.0	1	1.00-181			29.0	203
4-Bromophenyl-phenylether	0.0481	ND	0.0314	0.0228	65.3	47.4	1	53.0-127		J6	31.7	43
4-Chloro-3-methylphenol	0.0481	ND	0.0227	0.0172	47.2	35.8	1	22.0-147			27.6	73
4-Chlorophenyl-phenylether	0.0481	ND	0.0218	0.0171	45.3	35.6	1	25.0-158			24.2	61
4-Nitrophenol	0.0481	ND	0.0120	0.0115	24.9	23.9	1	1.00-132			4.26	131
Acenaphthene	0.0481	ND	0.0256	0.0216	53.2	44.9	1	47.0-145		J6	16.9	48
Acenaphthylene	0.0481	ND	0.0222	0.0192	46.2	39.9	1	33.0-145			14.5	74
Acetophenone	0.0481	ND	0.0179	0.0159	37.2	33.1	1	10.0-139			11.8	35
Alpha-Terpineol	0.0481	ND	0.0252	0.0232	52.4	48.2	1	30.0-120			8.26	30
Aniline	0.0481	ND	0.00930	0.00839	19.3	17.4	1	10.0-120			10.3	25
Anthracene	0.0481	ND	0.0322	0.0236	66.9	49.1	1	27.0-133			30.8	66
Atrazine	0.0481	ND	0.0340	0.0284	70.7	59.0	1	39.0-130			17.9	30
Benzidine	0.0962	ND	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	40
Benzo(a)anthracene	0.0481	ND	0.0326	0.0244	67.8	50.7	1	33.0-143			28.8	53
Benzo(a)pyrene	0.0481	ND	0.0426	0.0315	88.6	65.5	1	17.0-163			30.0	72
Benzo(b)fluoranthene	0.0481	ND	0.0378	0.0305	78.6	63.4	1	24.0-159			21.4	71
Benzo(g,h,i)perylene	0.0481	ND	0.0397	0.0298	82.5	62.0	1	1.00-219			28.5	97
Benzo(k)fluoranthene	0.0481	ND	0.0434	0.0283	90.2	58.8	1	11.0-162			42.1	63
Benzoic acid	0.0962	ND	0.0582	0.0409	60.5	42.5	1	10.0-120			34.9	40
Benzylbutyl phthalate	0.0481	ND	0.0352	0.0262	73.2	54.5	1	1.00-152			29.3	60
Bis(2-chlorethoxy)methane	0.0481	ND	0.0215	0.0194	44.7	40.3	1	33.0-184			10.3	54
Bis(2-chloroethyl)ether	0.0481	ND	0.0179	0.0155	37.2	32.2	1	12.0-158			14.4	108
Bis(2-chloroisopropyl)ether	0.0481	ND	0.0214	0.0189	44.5	39.3	1	36.0-166			12.4	76
Bis(2-Ethylhexyl)phthalate	0.0481	ND	0.0357	0.0263	74.2	54.7	1	8.00-158			30.3	82
Carbazole	0.0481	ND	0.0423	0.0340	87.9	70.7	1	23.0-158			21.8	26
Chrysene	0.0481	ND	0.0325	0.0246	67.6	51.1	1	17.0-168			27.7	87
Di-n-butyl phthalate	0.0481	ND	0.0400	0.0250	83.2	52.0	1	1.00-120			46.2	47
Di-n-octyl phthalate	0.0481	ND	0.0346	0.0269	71.9	55.9	1	4.00-146			25.0	69
Dibenz(a,h)anthracene	0.0481	ND	0.0488	0.0360	101	74.8	1	1.00-227			30.2	126
Dibenzofuran	0.0481	ND	0.0221	0.0182	45.9	37.8	1	17.0-150			19.4	27
Diethyl phthalate	0.0481	ND	0.0366	0.0309	76.1	64.2	1	1.00-120			16.9	100
Dimethyl phthalate	0.0481	ND	0.0325	0.0278	67.6	57.8	1	1.00-120			15.6	183
Fluoranthene	0.0481	ND	0.0284	0.0217	59.0	45.1	1	26.0-137			26.7	66
Fluorene	0.0481	ND	0.0231	0.0185	48.0	38.5	1	59.0-121	J6	J6	22.1	38
Hexachloro-1,3-butadiene	0.0481	ND	0.0166	0.0142	34.5	29.5	1	24.0-120			15.6	62
Hexachlorobenzene	0.0481	ND	0.0340	0.0237	70.7	49.3	1	1.00-152			35.7	55
Hexachlorocyclopentadiene	0.0481	ND	0.0145	ND	30.1	20.2	1	10.0-146		J3	39.5	34
Hexachloroethane	0.0481	ND	0.0143	0.0122	29.7	25.4	1	40.0-120	J6	J6	15.8	52

L1736414-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1736414-02 05/21/24 15:18 • (MS) R4072304-3 05/21/24 14:18 • (MSD) R4072304-4 05/21/24 14:48

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,2-Diphenylhydrazine	0.0481	ND	0.0223	0.0184	46.4	38.3	1	18.0-156	N2	N2	19.2	34
Indeno(1,2,3-cd)pyrene	0.0481	ND	0.0354	0.0270	73.6	56.1	1	1.00-171			26.9	99
Isophorone	0.0481	ND	0.0193	0.0181	40.1	37.6	1	21.0-196			6.42	93
n-Decane	0.0481	ND	0.0109	0.00908	22.7	18.9	1	10.0-127			18.2	37
n-Nitrosodi-n-butylamine	0.0481	ND	0.0191	0.0183	39.7	38.0	1	60.0-140	J6	J6	4.28	30
n-Nitrosodi-n-propylamine	0.0481	ND	0.0205	0.0184	42.6	38.3	1	1.00-230			10.8	87
n-Nitrosodiethylamine	0.0481	ND	0.0156	0.0142	32.4	29.5	1	60.0-140	J6	J6	9.40	30
n-Nitrosodimethylamine	0.0481	ND	0.00655	0.00574	13.6	11.9	1	10.0-120			13.2	40
n-Nitrosodiphenylamine	0.0481	ND	0.0266	0.0214	55.3	44.5	1	16.0-160			21.7	28
n-Octadecane	0.0481	ND	0.0245	0.0177	50.9	36.8	1	17.0-126		J3	32.2	23
Naphthalene	0.0481	ND	0.0197	0.0176	41.0	36.6	1	21.0-133			11.3	65
Nitrobenzene	0.0481	ND	0.0197	0.0181	41.0	37.6	1	35.0-180			8.47	62
Nonylphenol	0.0481	ND	0.0396	0.0300	82.3	62.4	1	37.0-142			27.6	40
Pentachlorobenzene	0.0481	ND	0.0239	0.0184	49.7	38.3	1	60.0-140	J6	J6	26.0	30
Pentachlorophenol	0.0481	ND	0.0406	0.0278	84.4	57.8	1	14.0-176			37.4	86
Phenanthrene	0.0481	ND	0.0329	0.0242	68.4	50.3	1	54.0-120		J6	30.5	39
Phenol	0.0481	ND	0.00582	0.00466	12.1	9.69	1	5.00-120			22.1	64
Pyrene	0.0481	ND	0.0280	0.0215	58.2	44.7	1	52.0-120		J6	26.3	49
Pyridine	0.0481	ND	ND	0.00251	2.91	5.22	1	10.0-120	J6	J3 J6	56.8	40
Total Cresols	0.0962	ND	0.0221	0.0184	23.0	19.1	1	10.0-118			18.3	40
(S) 2,4,6-Tribromophenol					*70.4*	*51.8*		*29.0-132*				
(S) 2-Fluorobiphenyl					*44.8*	*37.6*		*26.0-102*				
(S) 2-Fluorophenol					*12.8*	*11.1*		*10.0-66.0*				
(S) Nitrobenzene-d5					*38.9*	*36.7*		*15.0-106*				
(S) p-Terphenyl-d14					*65.1*	*42.4*		*10.0-120*				
(S) Phenol-d6					*11.3*	*9.92*		*10.0-54.0*		J2		

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical Services, LLC -Dallas 400 W. Bethany Drive Suite 190 Allen, TX 75013

Arkansas	88-0647	Kansas	E10388
Florida	E871118	Texas	T104704232-23-39
Iowa	408	Oklahoma	8727
Louisiana	30686		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Effluent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sulsar

Site/Facility ID #

P.O. #

Collected by (signature):
Brad Sulsar
Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALLPHTCHLOR 250mlAmb-H2SO4	ALLSUBLLHG 250mlClr	ALLV624.1 40mlClr-NoPres	Hex Cr and Cr3 500mlHDPE-NoPres	Metals 250mlHDPE HNO3	N+N, Total Nitrogen 250mlHDPE-H2SO4	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TKN 250mlHDPE-H2SO4		Remarks	Sample # (lab only)
EFFLUENT	Grab	WW		5-14-24	2,8,14 20	20	X		X									01
EFFLUENT	Comp	WW		5-14-24	2200	27		X		X	X	X	X	X	X			02
EFFLUENT LL HG BLANK	Grab	WW		5-15-24	0730	1		X										03

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
190 Allen, TX 75013

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1736404

Table #

Acctnum: **DSPARISPTX**

Template: **T197077**

Prelogin: **P1068908**

PM: **840 - Katie Ingram**

PB:

Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb Sb, Se, Tl, and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP __Y __N
COC Signed/Accurate:	__Y __N
Bottles arrive intact:	__Y __N
Correct bottles used:	__Y __N
Sufficient volume sent:	__Y __N
If Applicable	
VOA Zero Headspace:	__Y __N
Preservation Correct/Checked:	__Y __N
RAD Screen <0.5 mR/hr:	__Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Brad Sulsar	5/15/24	08:15	COC		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
COC	5/15/24	1105	PACE		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Effluent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Sutter

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	1657 1L-Amb-No Pres	604.1 1L-Amb-No Pres	608.3 1L-Amb-No Pres	615 1L-Amb-No Pres	617 1L-Amb-No Pres	625.1 1L-Amb-No Pres	632 1L-Amb-No Pres	ALL Cl, F, NO3, SO4 500mlHDPE-NoPres	ALL6251DIOXSC 1L-Amb-NoPres	ALLCNSEAL,CNAM 250mlHDPE-NaOH	Remarks	Sample # (lab only)
EFFLUENT	Grab	WW		5-14-24	2,8,14,20	20										X		01
EFFLUENT	Comp	WW		5-14-24	2200	27	X	X	X	X	X	X	X	X	X			02
EFFLUENT LL HG BLANK	Grab	WW		5-15-24	07:30	1												03

Analysis / Container / Preservative

Chain of Custody Page 5 of 8

Pace Analytical®
190 Allen, TX 75013

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1736404

Table #

Acctnum: **DSPARISPTX**
Template: **T197077**
Prelogin: **P1068908**
PM: **840 - Katie Ingram**
PB:

Shipped Via: **FedEX Priority**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, [redacted], As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, [redacted], Tl, Se, and Zn, Al

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP	__Y __N
COC Signed/Accurate:		__Y __N
Bottles arrive intact:		__Y __N
Correct bottles used:		__Y __N
Sufficient volume sent:		__Y __N
If Applicable		
VOA Zero Headspace:		__Y __N
Preservation Correct/Checked:		__Y __N
RAD Screen <0.5 mR/hr:		__Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Brad Sutter	5/15/24	08:15	[redacted]	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
[redacted]	5/15/24	1105	[redacted] PACE	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: City of Paris Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☑ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☑

Received on ice: Wet ☑ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR19 **Cooler Temp °C:** 3.4 (Recorded) +0.1 (Correction Factor) 3.5 (Actual) 4.1 4.2

Receiving Lab 2 Thermometer Used: _____ **Cooler Temp °C:** _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AR Date: 5/15

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☑ No ☐

Login Person: DC Date: 5/15

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: 0308011 Residual Chlorine Present Cl Strips: 148200 Sulfide Present Lead Acetate Strips: 148212	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑ NA ☐ Yes ☐ No ☑ NA ☐
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☑ NA ☐
Project sampled in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to: **Kenda Fortner**

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description: **Effluent - Wastewater Treatment Plant**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project # **DSPARISPTX-WWPLANT**

Collected by (print): Brad Sulser

Site/Facility ID #

P.O. #

Collected by (signature): Brad Sulser

Immediately
Packed on Ice N____ Y✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALLPHTCHLOR 250mlAmb-H2SO4	ALLSUBLLHG 250mlClr	ALLV624.1 40mlClr-NoPres	Hex Cr and Cr3 500mlHDPE-NoPres	Metals 250mlHDPE HNO3	N+N, Total Nitrogen 250mlHDPE-H2SO4	NH3 250mlHDPE-H2SO4	TDS 1L-HDPE NoPres	TKN 250mlHDPE-H2SO4	Remarks	Sample # (lab only)
EFFLUENT	Grab	WW		5-14-24	2,8,14	20	X		X								01
EFFLUENT	Comp	WW		5-14-24	2200	27		X		X	X	X	X	X	X		02
EFFLUENT LL HG BLANK	Grab	WW		5-15-24	0713D	1		X									03

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
190 Allen, TX 75013

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1736404

Table #

Acctnum: DSPARISPTX

Template: T197077

Prelogin: P1068908

PM: 840 - Katie Ingram

PB:

Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb Sb, Se, Tl, and Zn

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	__NP __Y __N
COC Signed/Accurate:	__Y __N
Bottles arrive intact:	__Y __N
Correct bottles used:	__Y __N
Sufficient volume sent:	__Y __N
If Applicable	
VOA Zero Headspace:	__Y __N
Preservation Correct/Checked:	__Y __N
RAD Screen <0.5 mR/hr:	__Y __N

Relinquished by : (Signature) Brad Sulser	Date: 5/15/24	Time: 08:15	Received by: (Signature) COC Cust	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature) COC Cust	Date: 5/15/24	Time: 1105	Received by: (Signature) PACE	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
Relinquished by : (Signature) Alejandra Valles PACE Alejandra Vallejo	Date: 5/15/24	Time: 1700	Received for lab by: (Signature) FedEX	Date: 5/15/24 Time: 1700	Hold: Condition: NCF / OK

REL: FedEX

REC: dlucca 5/16/24 900 EDAC 0.8+0.1=0.9

Company Name/Address:
City of Paris

PO Box 9037
Paris, TX 75461

Billing Information:
Kenda Fortner
PO Box 9037
Paris, TX 75461

Pres Chk

Report to:
Kenda Fortner

Email To: bweems@paristexas.gov;kfortner@paristexas.gov;drowell@paristexas.gov;jhart@paristexas.gov;bsulsar@paristexas.gov

Project Description:
Effluent - Wastewater Treatment Plant

City/State Collected:

Please Circle: PT MT CT ET

Phone: **903-785-6376**

Client Project #

Lab Project #
DSPARISPTX-WWPLANT

Collected by (print):
Brad Silver

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately
Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	1657 1L-Amb-No Pres	604.1 1L-Amb-No Pres	608.3 1L-Amb-No Pres	615 1L-Amb-No Pres	617 1L-Amb-No Pres	625.1 1L-Amb-No Pres	632 1L-Amb-No Pres	ALL Cl, F, NO3, SO4 500mlHDPE-NoPres	ALL6251DIOXSC 1L-Amb-NoPres	ALLCNSEAL,CNAM 250mlHDPE-NaOH	Remarks	Sample # (lab only)
EFFLUENT	Grab	WW		5-14-24	2,8,14 20	20										X		01
EFFLUENT	Comp	WW		5-14-24	2200	27	X	X	X	X	X	X	X	X	X			02
EFFLUENT LL HG BLANK	Grab	WW		5-15-24	07:30	1												03

Analysis / Container / Preservative

Chain of Custody Page 5 of 8

Pace Analytical®
190 Allen, TX 75013

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1736404

Table #

Acctnum: DSPARISPTX
Template: T197077
Prelogin: P1068908
PM: 840 - Katie Ingram
PB:

Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Metals = Ag, Al, As, Ba, Be, Cd, Cr, Cu, Mo, Ni, Pb, Sb, Se, Tl, Se, and Zn, Al

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Brad Silver	5/15/24	08:15		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
	5/15/24	1105	PACE	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
Alejandra Hallegos Alejandra Hallegos	5/15/24	1700	FedEX	5/15/24 1700

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

REL: FedEX

REC:

Pace Analytical	Document Name: Sample Condition Upon Receipt	Document Revised: 7/27/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.14	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☑Dallas ☐Ft Worth ☐Corpus Christi ☐Austin

Client Name: City of Paris Project Work order (place label):

Courier: FedEX ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: _____

Tracking #: _____

Custody Seal on Cooler/Box: Yes ☐ No ☐

Received on ice: Wet ☐ Blue ☐ No ice ☐

Receiving Lab 1 Thermometer Used: IR19 Cooler Temp °C: 3.4 (Recorded) +0.1 (Correction Factor) 3.5 (Actual) 4.1 4.2

Receiving Lab 2 Thermometer Used: _____ Cooler Temp °C: _____ (Recorded) _____ (Correction Factor) _____ (Actual)

Temperature should be above freezing to 6°C unless collected same day as receipt in which evidence of cooling is acceptable

Triage Person: AL Date: 5/15

Chain of Custody relinquished	Yes ☑ No ☐
Sampler name & signature on COC	Yes ☑ No ☐
Short HT analyses (<72 hrs)	Yes ☑ No ☐

Login Person: AL Date: 5/15

Sufficient Volume received	Yes ☑ No ☐
Correct Container used	Yes ☑ No ☐
Container Intact	Yes ☑ No ☐
Sample pH Acceptable pH Strips: 0308011 Residual Chlorine Present Cl Strips: 148e0 Sulfide Present Lead Acetate Strips: 14812	Yes ☑ No ☐ NA ☐ Yes ☐ No ☑ NA ☐ Yes ☐ No ☑ NA ☐
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes ☐ No ☐ NA ☑
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑
Headspace in VOA (>6mm)	Yes ☐ No ☑ NA ☐
Samples originated in USDA Regulated Area outside of Texas State Sampled: _____	Yes ☐ No ☐ NA ☑
Non-Conformance(s):	Yes ☐ No ☑

Labeling Person (if different than log-in): _____ Date: _____

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

May 30, 2024

Jeremy Watkins
Pace Analytical Dallas
400 West Bethany Drive
Suite 190
Allen, TX 75013

RE: Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Dear Jeremy Watkins:

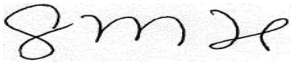
Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Lane
angela.lane@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Client Services, Pace Analytical Allen

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40278481001	**EFFLUENT**	Water	05/14/24 22:00	05/18/24 11:15
40278481002	**EFFLUENT LL HG BLANK**	Water	05/15/24 07:30	05/18/24 11:15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40278481001	**EFFLUENT**	EPA 1631E	MRP	1
40278481002	**EFFLUENT LL HG BLANK**	EPA 1631E	MRP	1

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Sample: EFFLUENT **Lab ID: 40278481001** Collected: 05/14/24 22:00 Received: 05/18/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**2.97**	ng/L	0.50	1	05/24/24 08:57	05/29/24 13:15	7439-97-6	

Sample: EFFLUENT LL HG BLANK **Lab ID: 40278481002** Collected: 05/15/24 07:30 Received: 05/18/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	ND	ng/L	0.50	1	05/24/24 08:57	05/29/24 13:10	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

QC Batch: 475136
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40278481001, 40278481002

METHOD BLANK: 2721153 Matrix: Water
Associated Lab Samples: 40278481001, 40278481002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/29/24 12:50	

METHOD BLANK: 2721154 Matrix: Water
Associated Lab Samples: 40278481001, 40278481002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/29/24 13:55	

METHOD BLANK: 2721155 Matrix: Water
Associated Lab Samples: 40278481001, 40278481002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	05/29/24 15:23	

METHOD BLANK: 2721156 Matrix: Water
Associated Lab Samples: 40278481001, 40278481002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	05/29/24 12:55	

LABORATORY CONTROL SAMPLE: 2721157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.90	98	79-121	

LABORATORY CONTROL SAMPLE: 2721158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.85	97	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2723931 2723932

Parameter	Units	40278562001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	112	211	211	297	289	88	84	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2723933 2723934

Parameter	Units	40278609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.24	2	2	3.16	3.14	96	95	75-125	0	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1736404 EFFLUENT-WWTP
Pace Project No.: 40278481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40278481001	**EFFLUENT**	EPA 1631E	475136	EPA 1631E	475592
40278481002	**EFFLUENT LL HG BLANK**	EPA 1631E	475136	EPA 1631E	475592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

402784481

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Pace Analytical	Report To	Pace Analytical Subout Team	Attention	Kenda Fortner
Address	400 W Bethany Drive Suite 190	Copy To		Company Name	
Allen, TX 75013				Address	
Email	Dallas_Sub@pacelabs com	Purchase Order #	L1736404	Pace Quote	
Phone	(972) 727-1123 Fax	Project Name	Effluent - Wastewater Treatment Plant	Pace Project Manager	Angela Lane
Requested Due Date	30-May	Project #		Pace Profile #	38076

Regulatory Agency	
State / Location	TX

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	Low Level Hg	Residual Chlorine (Y/N)	
1	EFFLUENT	WT				14-May	22 00		1								1			X		001
2	EFFLUENT LL HG BLANK	WT				15-May	7 30		1								1			X		002
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Courtney Ayscue Ramos/PACE	5/17/24	1740	Foster	5/17/24	1740	
Pace Analytical Batch WG2288518	Foster	5/18/24	1115	Green Bay	5/18/24	1115	
Pace Analytical SDGs: L1736404							
Location: Green Bay, WI 54302							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				

Sample Preservation Receipt Form

Client Name: Pace TX Project # 40278481

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted).

Pace Lab #	Glass							Plastic						Vials						Jars				General				VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN 1	GN 2							
001							1																											2.5 / 5
002							1																											2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016																																		2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

5/16/24 6E

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other_____ Headspace in VOA Vials (>6mm): ☐Yes ☐No ☑N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Page 1 of 2

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40278481

40278481

Client Name: Pace TX

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 7411 4453 1699

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 136 **Type of Ice:** Wet Blue Dry (None) ☐ Meltwater Only

Cooler Temperature Uncorr: N/A /Corr: N/A

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
Date: 5/18/24 /Initials: GF

Labeled By Initials: NK

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4. IRWO 5/18/24 GF
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
Correct Type: Pace Green Bay, (Pace IR), Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. 001 date + time 5/18/24 GF
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

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Project
1103826

PABA-N

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Printed 06/04/2024
5:11

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

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

1

SAMPLE CROSS REFERENCE

Project
1103826

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Sample	Sample ID	Taken	Time	Received
2300153	*L1736404-02*	05/14/2024	22:00:00	05/18/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Client Supplied Amber Glass
Bottle 06 Client Supplied Amber Glass
Bottle 07 Client Supplied Amber Glass
Bottle 08 Client Supplied Amber Glass
Bottle 09 Client Supplied Amber Glass
Bottle 10 Client Supplied Amber Glass
Bottle 11 Client Supplied Amber Glass
Bottle 12 Client Supplied Amber Glass
Bottle 13 Client Supplied Amber Glass
Bottle 14 Client Supplied Amber Glass
Bottle 15 Client Supplied Amber Glass
Bottle 16 Client Supplied Amber Glass
Bottle 17 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1120065) Volume: 1.00000 mL <== Derived from 01 (1009 ml)
Bottle 18 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1120069) Volume: 1.00000 mL <== Derived from 01 (1009 ml)
Bottle 19 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1120071) Volume: 1.00000 mL <== Derived from 01 (1009 ml)
Bottle 20 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1120082) Volume: 1.00000 mL <== Derived from 01 (1009 ml)
Bottle 21 Prepared Bottle: 2 mL Autosampler Vial (Batch 1120466) Volume: 10.00000 mL <== Derived from 03 (1000 ml)
Bottle 22 Prepared Bottle: 2 mL Autosampler Vial (Batch 1120471) Volume: 5.00000 mL <== Derived from 02 (1017 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	20	1120082	05/20/2024	1120942	05/21/2024
EPA 608.3	19	1120071	05/20/2024	1120957	05/21/2024
EPA 615	21	1120466	05/21/2024	1121059	05/24/2024
EPA 632	17	1120065	05/20/2024	1121904	05/24/2024
EPA 604.1	22	1120471	05/21/2024	1121566	05/29/2024
EPA 1657	18	1120069	05/20/2024	1121932	05/22/2024
EPA 617	20	1120082	05/20/2024	1120940	05/21/2024

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Project 1103826

Pace Analytical Dallas
Jeremy Watkins
400 West Bethany Drive
Suite 190
Allen, TX 75013

Printed: 06/04/2024

RESULTS

Sample Results

2300153 L1736404-02 Received: 05/18/2024

Non-Potable Water Collected by: Client Pace Analytical Dall PO: WG2288496
Taken: 05/14/2024 22:00:00

EPA 1657 Prepared: 1120069 05/20/2024 14:07:22 Analyzed 1121932 05/22/2024 01:17:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Azinphos-methyl (Guthion)	<0.0496	ug/L	0.0496		86-50-0	18
z	Chlorpyrifos	<0.0496	ug/L	0.0496		2921-88-2	18
z	Demeton	<0.0496	ug/L	0.0496		8065-48-3	18
z	Diazinon	<0.0496	ug/L	0.0496		333-41-5	18
z	Malathion	<0.0496	ug/L	0.0496		121-75-5	18
z	Parathion, ethyl	<0.0496	ug/L	0.0496		56-38-2	18
z	Parathion, methyl	<0.0496	ug/L	0.0496		298-00-0	18

EPA 604.1 Prepared: 1120471 05/21/2024 10:00:00 Analyzed 1121566 05/29/2024 17:16:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<2.46	ug/L	2.46		70-30-4	22

EPA 608.3 Prepared: 1120071 05/20/2024 13:59:00 Analyzed 1120957 05/21/2024 19:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200		12674-11-2	19
NELAC	PCB-1221	<0.198	ug/L	0.198		11104-28-2	19
NELAC	PCB-1232	<0.198	ug/L	0.198		11141-16-5	19
NELAC	PCB-1242	<0.198	ug/L	0.198		53469-21-9	19
NELAC	PCB-1248	<0.198	ug/L	0.198		12672-29-6	19
NELAC	PCB-1254	<0.198	ug/L	0.198		11097-69-1	19
NELAC	PCB-1260	<0.198	ug/L	0.198		11096-82-5	19
NELAC	PCB-1262	<0.198	ug/L	0.198		37324-23-5	19
NELAC	PCB-1268	<0.198	ug/L	0.198		11100-14-4	19

EPA 608.3 Prepared: 1120082 05/20/2024 13:59:00 Analyzed 1120942 05/21/2024 19:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.00991	ug/L	0.00991		72-54-8	20

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PABA-N

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Allen, TX 75013

Project 1103826

Printed: 06/04/2024

2300153 L1736404-02 Received: 05/18/2024

Non-Potable Water Collected by: Client Pace Analytical Dall PO: WG2288496
Taken: 05/14/2024 22:00:00

EPA 608.3 Prepared: 1120082 05/20/2024 13:59:00 Analyzed 1120942 05/21/2024 19:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDE	<0.00991	ug/L	0.00991		72-55-9	20
NELAC	4,4-DDT	<0.00991	ug/L	0.00991		50-29-3	20
NELAC	Aldrin	<0.00991	ug/L	0.00991		309-00-2	20
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.00991	ug/L	0.00991		319-84-6	20
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.00991	ug/L	0.00991		319-85-7	20
NELAC	Chlordane	<0.198	ug/L	0.198		57-74-9	20
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.00991	ug/L	0.00991		319-86-8	20
NELAC	Dieldrin	<0.00991	ug/L	0.00991		60-57-1	20
NELAC	Endosulfan I (alpha)	<0.00991	ug/L	0.00991		959-98-8	20
NELAC	Endosulfan II (beta)	<0.00991	ug/L	0.00991		33213-65-9	20
NELAC	Endosulfan sulfate	<0.00991	ug/L	0.00991		1031-07-8	20
NELAC	Endrin	<0.00991	ug/L	0.00991		72-20-8	20
NELAC	Endrin aldehyde	<0.00991	ug/L	0.00991		7421-93-4	20
NELAC	Gamma-BHC(Lindane)	<0.00991	ug/L	0.00991		58-89-9	20
NELAC	Heptachlor	<0.00991	ug/L	0.00991		76-44-8	20
NELAC	Heptachlor epoxide	<0.00991	ug/L	0.00991		1024-57-3	20
NELAC	Toxaphene	<0.198	ug/L	0.198		8001-35-2	20

EPA 615 Prepared: 1120466 05/21/2024 13:20:00 Analyzed 1121059 05/24/2024 18:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.500	ug/L	0.500		94-75-7	21
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	21

EPA 617 Prepared: 1120082 05/20/2024 13:59:00 Analyzed 1120940 05/21/2024 19:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.0496	ug/L	0.0496	X	115-32-2	20
z	Methoxychlor	<0.00991	ug/L	0.00991		72-43-5	20
z	Mirex	<0.00991	ug/L	0.00991		2385-85-5	20

EPA 632 Prepared: 1120065 05/20/2024 13:59:50 Analyzed 1121904 05/24/2024 03:57:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.48	ug/L	2.48		63-25-2	17

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Printed: 06/04/2024

2300153 **L1736404-02** Received: 05/18/2024

Non-Potable Water Collected by: Client Pace Analytical Dall PO: WG2288496
Taken: 05/14/2024 22:00:00

EPA 632 Prepared: 1120065 05/20/2024 13:59:50 Analyzed 1121904 05/24/2024 03:57:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Diuron**	**<0.0446**	**ug/L**	0.0446		**330-54-1**	17

Sample Preparation

2300153 **L1736404-02** Received: 05/18/2024

WG2288496

05/14/2024

Prepared: 05/20/2024 08:26:13 Calculated 05/20/2024 08:26:13 CAL

z	**Environmental Fee (per Project)**	**Verified**

Cooler Return Prepared: 05/20/2024 17:00:00 Analyzed 05/20/2024 17:00:00 DRS

z	**Return Cooler/No bottles Require**	**sent**

EPA 1657 Prepared: 1120069 05/20/2024 14:07:22 Analyzed 1121932 05/22/2024 01:17:00 KAP

z	**Organophos. Pesticides/1657**	**Entered**	18

EPA 604.1 Prepared: 1120471 05/21/2024 10:00:00 Analyzed 1120471 05/21/2024 10:00:00 CRS

	Hexachlorophene Extraction	**5/1017** **ml**	02

EPA 604.1 Prepared: 1120471 05/21/2024 10:00:00 Analyzed 1121566 05/29/2024 17:16:00 BRU

	Hexachlorophene Expansion	**Entered**	**70-30-4**	22

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Printed: 06/04/2024

2300153 L1736404-02

Received: 05/18/2024

WG2288496

05/14/2024

EPA 608.3	Prepared:	1120069	05/20/2024	14:07:22	Analyzed	1120069	05/20/2024	14:07:22	SAB	
Solvent Extraction	1/1009	ml								01
EPA 608.3	Prepared:	1120071	05/20/2024	13:59:00	Analyzed	1120071	05/20/2024	13:59:00	SAB	
PCB Liq-Liq Extr. W/Hex Exch.	1/1009	ml								01
EPA 608.3	Prepared:	1120071	05/20/2024	13:59:00	Analyzed	1120957	05/21/2024	19:02:00	KAP	
NELAC Polychlorinated Biphenyls	Entered									19
EPA 608.3	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120082	05/20/2024	13:59:00	SAB	
Liquid-Liquid Extr. W/Hex Ex	10/1009	ml								01
EPA 608.3	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120942	05/21/2024	19:02:00	KAP	
NELAC TTO Pesticides	Entered									20
EPA 615	Prepared:	1120466	05/21/2024	13:20:00	Analyzed	1120466	05/21/2024	13:20:00	CRS	
NELAC Esterification of Sample	10/1000	ml								03
EPA 615	Prepared:	1120466	05/21/2024	13:20:00	Analyzed	1121059	05/24/2024	18:02:00	KAP	
NELAC Herbicides by GC	Entered									21
EPA 617	Prepared:	1120082	05/20/2024	13:59:00	Analyzed	1120940	05/21/2024	19:02:00	KAP	
z For use with !PPR only	Entered									20

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Printed: 06/04/2024

2300153 L1736404-02

Received: 05/18/2024

WG2288496

05/14/2024

EPA 632		Prepared:	1120065	05/20/2024	13:59:50	Analyzed	1120065	05/20/2024	13:59:50	SAB
	Liquid-Liquid Extr. W/Hex Ex	1/1009	ml							01
EPA 632		Prepared:	1120065	05/20/2024	13:59:50	Analyzed	1121904	05/24/2024	03:57:00	BRU
NELAC	Carbaryl/Diuron	Entered								17

Qualifiers:

X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

PABA-N

Pace Analytical Dallas
Jeremy Watkins
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Suite 190
Allen, TX 75013

Project
1103826

Printed 06/04/2024

Analytical Set 1120940 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1120082	ND	3.52	5.00	ug/L	126369361
Methoxychlor	1120082	ND	0.897	1.00	ug/L	126369361
Mirex	1120082	ND	0.905	1.00	ug/L	126369361

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Kelthane (Dicofol)	43.4	50.0	ug/L	86.9	70.0 - 130	126369360
Kelthane (Dicofol)	57.4	50.0	ug/L	115	70.0 - 130	126369369
Methoxychlor	23.8	25.0	ug/L	95.2	70.0 - 130	126369360
Methoxychlor	25.5	25.0	ug/L	102	70.0 - 130	126369369
Mirex	24.8	25.0	ug/L	99.1	70.0 - 130	126369360
Mirex	24.3	25.0	ug/L	97.3	70.0 - 130	126369369

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1120082	88.2	87.9	50.0	0.100 - 137	176 *	176 *	ug/L	0	30.0
Methoxychlor	1120082	32.1	33.5	50.0	21.5 - 151	64.2	67.0	ug/L	4.27	30.0
Mirex	1120082	53.7	56.3	50.0	11.6 - 140	107	113	ug/L	5.45	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	24.4	100	ug/L	24.4	10.0 - 150	126369360
Decachlorobiphenyl	624136	CCV	24.1	100	ug/L	24.1	10.0 - 150	126369369
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.4	100	ug/L	23.4	10.0 - 150	126369360
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.1	100	ug/L	23.1	10.0 - 150	126369369
Decachlorobiphenyl	1120082	Blank	71.1	100	ug/L	71.1	10.0 - 150	126369361
Decachlorobiphenyl	1120082	LCS	71.8	100	ug/L	71.8	10.0 - 150	126369362
Decachlorobiphenyl	1120082	LCS Dup	67.1	100	ug/L	67.1	10.0 - 150	126369363
Tetrachloro-m-Xylene (Surr)	1120082	Blank	46.5	100	ug/L	46.5	10.0 - 150	126369361
Tetrachloro-m-Xylene (Surr)	1120082	LCS	36.0	100	ug/L	36.0	10.0 - 150	126369362
Tetrachloro-m-Xylene (Surr)	1120082	LCS Dup	37.5	100	ug/L	37.5	10.0 - 150	126369363
Decachlorobiphenyl	2300153	Unknown	0.597	0.991	ug/L	60.2	10.0 - 150	126369364
Tetrachloro-m-Xylene (Surr)	2300153	Unknown	0.464	0.991	ug/L	46.8	10.0 - 150	126369364

Analytical Set 1120942 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1120082	ND	0.731	1.00	ug/L	126369380
4,4-DDE	1120082	ND	0.361	1.00	ug/L	126369380
4,4-DDT	1120082	ND	0.862	1.00	ug/L	126369380
Aldrin	1120082	ND	0.260	1.00	ug/L	126369380
Alpha-BHC(hexachlorocyclohexane)	1120082	ND	0.280	1.00	ug/L	126369380
Beta-BHC(hexachlorocyclohexane)	1120082	ND	0.579	1.00	ug/L	126369380
Delta-BHC(hexachlorocyclohexane)	1120082	ND	0.898	1.00	ug/L	126369380

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Dieldrin	1120082	ND	0.162	1.00	ug/L	126369380
Endosulfan I (alpha)	1120082	ND	0.679	1.00	ug/L	126369380
Endosulfan II (beta)	1120082	ND	0.356	1.00	ug/L	126369380
Endosulfan sulfate	1120082	ND	0.588	1.00	ug/L	126369380
Endrin	1120082	ND	0.538	1.00	ug/L	126369380
Endrin aldehyde	1120082	ND	0.699	1.00	ug/L	126369380
Gamma-BHC(Lindane)	1120082	ND	0.385	1.00	ug/L	126369380
Heptachlor	1120082	ND	0.207	1.00	ug/L	126369380
Heptachlor epoxide	1120082	ND	0.660	1.00	ug/L	126369380
Toxaphene	1120082	ND	0.169	0.200	ug/L	126369380

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
4,4-DDD	24.8	25.0	ug/L	99.2	75.0 - 125	126369379
4,4-DDD	24.6	25.0	ug/L	98.4	75.0 - 125	126369388
4,4-DDE	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
4,4-DDE	24.6	25.0	ug/L	98.4	75.0 - 125	126369388
4,4-DDT	25.9	25.0	ug/L	104	75.0 - 125	126369379
4,4-DDT	27.9	25.0	ug/L	112	75.0 - 125	126369388
Aldrin	24.3	25.0	ug/L	97.2	75.0 - 125	126369379
Aldrin	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Alpha-BHC(hexachlorocyclohexane)	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Alpha-BHC(hexachlorocyclohexane)	23.2	25.0	ug/L	92.8	75.0 - 125	126369388
Beta-BHC(hexachlorocyclohexane)	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Beta-BHC(hexachlorocyclohexane)	23.0	25.0	ug/L	92.0	75.0 - 125	126369388
Delta-BHC(hexachlorocyclohexane)	24.6	25.0	ug/L	98.4	75.0 - 125	126369379
Delta-BHC(hexachlorocyclohexane)	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Dieldrin	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Dieldrin	24.0	25.0	ug/L	96.0	75.0 - 125	126369388
Endosulfan I (alpha)	23.9	25.0	ug/L	95.6	75.0 - 125	126369379
Endosulfan I (alpha)	23.2	25.0	ug/L	92.8	75.0 - 125	126369388
Endosulfan II (beta)	24.4	25.0	ug/L	97.6	75.0 - 125	126369379
Endosulfan II (beta)	23.3	25.0	ug/L	93.2	75.0 - 125	126369388
Endosulfan sulfate	23.4	25.0	ug/L	93.6	75.0 - 125	126369379
Endosulfan sulfate	23.0	25.0	ug/L	92.0	75.0 - 125	126369388
Endrin	24.2	25.0	ug/L	96.8	75.0 - 125	126369379
Endrin	24.3	25.0	ug/L	97.2	75.0 - 125	126369388
Endrin aldehyde	24.7	25.0	ug/L	98.8	75.0 - 125	126369379
Endrin aldehyde	24.0	25.0	ug/L	96.0	75.0 - 125	126369388
Gamma-BHC(Lindane)	24.3	25.0	ug/L	97.2	75.0 - 125	126369379
Gamma-BHC(Lindane)	23.8	25.0	ug/L	95.2	75.0 - 125	126369388
Heptachlor	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Heptachlor	24.1	25.0	ug/L	96.4	75.0 - 125	126369388
Heptachlor epoxide	23.7	25.0	ug/L	94.8	75.0 - 125	126369379
Heptachlor epoxide	23.6	25.0	ug/L	94.4	75.0 - 125	126369388

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1120082	36.1	39.7	50.0	31.0 - 141	72.2	79.4	ug/L	9.50	39.0
4,4-DDE	1120082	32.8	37.3	50.0	30.0 - 145	65.6	74.6	ug/L	12.8	35.0
4,4-DDT	1120082	40.0	41.7	50.0	25.0 - 160	80.0	83.4	ug/L	4.16	42.0
Aldrin	1120082	30.9	33.3	50.0	42.0 - 140	61.8	66.6	ug/L	7.48	35.0
Alpha-BHC(hexachlorocyclohexane)	1120082	30.3	36.2	50.0	37.0 - 140	60.6	72.4	ug/L	17.7	36.0
Beta-BHC(hexachlorocyclohexane)	1120082	39.7	44.4	50.0	17.0 - 147	79.4	88.8	ug/L	11.2	44.0
Delta-BHC(hexachlorocyclohexane)	1120082	33.6	37.9	50.0	19.0 - 140	67.2	75.8	ug/L	12.0	52.0
Dieldrin	1120082	32.9	37.2	50.0	36.0 - 146	65.8	74.4	ug/L	12.3	49.0
Endosulfan I (alpha)	1120082	27.8	32.9	50.0	45.0 - 153	55.6	65.8	ug/L	16.8	28.0
Endosulfan II (beta)	1120082	22.9	26.6	50.0	0.100 - 202	45.8	53.2	ug/L	14.9	53.0
Endosulfan sulfate	1120082	26.7	29.8	50.0	26.0 - 144	53.4	59.6	ug/L	11.0	38.0
Endrin	1120082	32.0	36.8	50.0	30.0 - 147	64.0	73.6	ug/L	14.0	48.0
Endrin aldehyde	1120082	35.7	38.1	50.0	37.6 - 158	71.4	76.2	ug/L	6.50	30.0
Gamma-BHC(Lindane)	1120082	29.6	34.2	50.0	32.0 - 140	59.2	68.4	ug/L	14.4	39.0
Heptachlor	1120082	29.7	31.2	50.0	34.0 - 140	59.4	62.4	ug/L	4.93	43.0
Heptachlor epoxide	1120082	30.7	35.2	50.0	37.0 - 142	61.4	70.4	ug/L	13.7	26.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	24.4	100	ug/L	24.4	0.100 - 144	126369379
Decachlorobiphenyl	624136	CCV	24.1	100	ug/L	24.1	0.100 - 144	126369388
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.4	100	ug/L	23.4	0.100 - 107	126369379
Tetrachloro-m-Xylene (Surr)	624136	CCV	23.1	100	ug/L	23.1	0.100 - 107	126369388
Decachlorobiphenyl	1120082	Blank	71.1	100	ug/L	71.1	0.100 - 144	126369380
Decachlorobiphenyl	1120082	LCS	71.8	100	ug/L	71.8	0.100 - 144	126369381
Decachlorobiphenyl	1120082	LCS Dup	67.1	100	ug/L	67.1	0.100 - 144	126369382
Tetrachloro-m-Xylene (Surr)	1120082	Blank	46.5	100	ug/L	46.5	0.100 - 107	126369380
Tetrachloro-m-Xylene (Surr)	1120082	LCS	36.0	100	ug/L	36.0	0.100 - 107	126369381
Tetrachloro-m-Xylene (Surr)	1120082	LCS Dup	37.5	100	ug/L	37.5	0.100 - 107	126369382
Decachlorobiphenyl	2300153	Unknown	0.0597	0.0991	ug/L	60.2	0.100 - 144	126369383
Tetrachloro-m-Xylene (Surr)	2300153	Unknown	0.0464	0.0991	ug/L	46.8	0.100 - 107	126369383

Analytical Set 1120957 EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1120071	ND	0.202	0.202	ug/L	126369488
PCB-1221	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1232	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1242	1120071	ND	0.192	0.200	ug/L	126369488
PCB-1248	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1254	1120071	ND	0.143	0.200	ug/L	126369488
PCB-1260	1120071	ND	0.161	0.200	ug/L	126369488
PCB-1262	1120071	ND	0.198	0.200	ug/L	126369488
PCB-1268	1120071	ND	0.143	0.200	ug/L	126369488

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Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1070	1000	ug/L	107	80.0 - 115	126369487
PCB-1016	1050	1000	ug/L	105	80.0 - 115	126369494
PCB-1260	1120	1000	ug/L	112	80.0 - 115	126369487
PCB-1260	1040	1000	ug/L	104	80.0 - 115	126369494

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1120071	713	658	1000	39.8 - 135	71.3	65.8	ug/L	8.02	30.0
PCB-1260	1120071	702	685	1000	36.1 - 134	70.2	68.5	ug/L	2.45	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1120071	Blank	71.1	100	ug/L	71.1	10.0 - 200	126369488
Tetrachloro-m-Xylene (Surr)	1120071	Blank	46.5	100	ug/L	46.5	10.0 - 200	126369488
Decachlorobiphenyl	2300153	Unknown	0.0597	0.0991	ug/L	60.2	10.0 - 200	126369491
Tetrachloro-m-Xylene (Surr)	2300153	Unknown	0.0464	0.0991	ug/L	46.8	10.0 - 200	126369491

Analytical Set 1121059 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1120466	ND	0.159	0.500	ug/L	126371567
2,4,5-TP (Silvex)	1120466	0.0944	0.0893	0.300	ug/L	126371567

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	139	150	ug/L	92.6	80.0 - 115	126371566
2,4 Dichlorophenoxyacetic acid	140	150	ug/L	93.1	80.0 - 115	126371573
2,4,5-TP (Silvex)	171	150	ug/L	114	80.0 - 115	126371566
2,4,5-TP (Silvex)	154	150	ug/L	103	80.0 - 115	126371573

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1120466	0.839	0.834	1.00	0.100 - 319	83.9	83.4	ug/L	0.598	30.0
2,4,5-TP (Silvex)	1120466	0.592	0.682	1.00	0.100 - 244	59.2	68.2	ug/L	14.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	139	200	ug/L	69.5	0.100 - 313	126371566
2,4-Dichlorophenylacetic Acid		CCV	167	200	ug/L	83.5	0.100 - 313	126371573
2,4-Dichlorophenylacetic Acid	1120466	Blank	50.3	200	ug/L	25.2	0.100 - 313	126371567
2,4-Dichlorophenylacetic Acid	1120466	LCS	145	200	ug/L	72.5	0.100 - 313	126371568
2,4-Dichlorophenylacetic Acid	1120466	LCS Dup	66.8	200	ug/L	33.4	0.100 - 313	126371569
2,4-Dichlorophenylacetic Acid	2300153	Unknown	0.0671	2.00	ug/L	3.36	0.100 - 313	126371570

Analytical Set 1121566 — EPA 604.1

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1120471	1.70	0.890	2.50	ug/L	126384885

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	4990	5000	ug/L	99.7	70.0 - 130	126384884
Hexachlorophene	4820	5000	ug/L	96.5	70.0 - 130	126384888
Hexachlorophene	4890	5000	ug/L	97.8	70.0 - 130	126384891

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1120471	61.3	39.0	50.0	25.5 - 145	123	78.0	ug/L	44.8	50.0

Analytical Set 1121904 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1120065	ND	66.1	2500	ug/L	126392200
Diuron	1120065	ND	44.4	45.0	ug/L	126392200

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	510	500	ug/L	102	70.0 - 130	126392199
Carbaryl (Sevin)	554	500	ug/L	111	70.0 - 130	126392203
Carbaryl (Sevin)	556	500	ug/L	111	70.0 - 130	126392206
Carbaryl (Sevin)	583	500	ug/L	117	70.0 - 130	126392210
Carbaryl (Sevin)	594	500	ug/L	119	70.0 - 130	126392213
Carbaryl (Sevin)	1020	1000	ug/L	102	70.0 - 130	126392217
Diuron	535	500	ug/L	107	70.0 - 130	126392199
Diuron	571	500	ug/L	114	70.0 - 130	126392203
Diuron	592	500	ug/L	118	70.0 - 130	126392206
Diuron	570	500	ug/L	114	70.0 - 130	126392210
Diuron	619	500	ug/L	124	70.0 - 130	126392213
Diuron	1070	1000	ug/L	107	70.0 - 130	126392217

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1120065	894	979	1000	17.1 - 131	89.4	97.9	ug/L	9.08	30.0
Diuron	1120065	900	961	1000	0.100 - 138	90.0	96.1	ug/L	6.56	30.0

Analytical Set 1121932 — EPA 1657

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1120069	ND	41.4	50.0	ug/L	126392781
Chlorpyrifos	1120069	ND	22.6	50.0	ug/L	126392781
Demeton	1120069	ND	31.9	50.0	ug/L	126392781
Diazinon	1120069	ND	19.7	50.0	ug/L	126392781
Malathion	1120069	ND	24.8	50.0	ug/L	126392781

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Parathion, ethyl	1120069	ND	23.9	50.0	ug/L	126392781
Parathion, methyl	1120069	ND	27.4	50.0	ug/L	126392781

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1010	1000	ug/L	101	37.0 - 150	126392774
Azinphos-methyl (Guthion)	1120	1000	ug/L	112	37.0 - 150	126392780
Azinphos-methyl (Guthion)	1170	1000	ug/L	117	37.0 - 150	126392786
Chlorpyrifos	974	1000	ug/L	97.4	48.0 - 150	126392774
Chlorpyrifos	1000	1000	ug/L	100	48.0 - 150	126392780
Chlorpyrifos	1030	1000	ug/L	103	48.0 - 150	126392786
Demeton	972	1000	ug/L	97.2	16.0 - 150	126392774
Demeton	1040	1000	ug/L	104	16.0 - 150	126392780
Demeton	1120	1000	ug/L	112	16.0 - 150	126392786
Diazinon	962	1000	ug/L	96.2	50.0 - 150	126392774
Diazinon	1010	1000	ug/L	101	50.0 - 150	126392780
Diazinon	1130	1000	ug/L	113	50.0 - 150	126392786
Malathion	957	1000	ug/L	95.7	50.0 - 150	126392774
Malathion	1070	1000	ug/L	107	50.0 - 150	126392780
Malathion	1080	1000	ug/L	108	50.0 - 150	126392786
Parathion, ethyl	952	1000	ug/L	95.2	50.0 - 150	126392774
Parathion, ethyl	1110	1000	ug/L	111	50.0 - 150	126392780
Parathion, ethyl	1170	1000	ug/L	117	50.0 - 150	126392786
Parathion, methyl	942	1000	ug/L	94.2	50.0 - 150	126392774
Parathion, methyl	1110	1000	ug/L	111	50.0 - 150	126392780
Parathion, methyl	1150	1000	ug/L	115	50.0 - 150	126392786

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1120069	639	668	1000	0.100 - 152	63.9	66.8	ug/L	4.44	50.0
Chlorpyrifos	1120069	540	560	1000	0.100 - 132	54.0	56.0	ug/L	3.64	50.0
Demeton	1120069	426	463	1000	0.100 - 114	42.6	46.3	ug/L	8.32	50.0
Diazinon	1120069	515	531	1000	0.100 - 119	51.5	53.1	ug/L	3.06	50.0
Malathion	1120069	578	577	1000	0.100 - 126	57.8	57.7	ug/L	0.173	50.0
Parathion, ethyl	1120069	643	654	1000	0.100 - 138	64.3	65.4	ug/L	1.70	50.0
Parathion, methyl	1120069	574	598	1000	0.100 - 125	57.4	59.8	ug/L	4.10	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	982	2000	ug/L	49.1	0.100 - 106	126392774
Tributylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 106	126392780
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126392786
Triphenylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 172	126392774
Triphenylphosphate		CCV	976	2000	ug/L	48.8	0.100 - 172	126392780
Triphenylphosphate		CCV	924	2000	ug/L	46.2	0.100 - 172	126392786
Tributylphosphate	1120069	Blank	628	2000	ug/L	31.4	0.100 - 106	126392781

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate	1120069	LCS	616	2000	ug/L	30.8	0.100 - 106	126392782
Tributylphosphate	1120069	LCS Dup	647	2000	ug/L	32.4	0.100 - 106	126392783
Triphenylphosphate	1120069	Blank	615	2000	ug/L	30.8	0.100 - 172	126392781
Triphenylphosphate	1120069	LCS	590	2000	ug/L	29.5	0.100 - 172	126392782
Triphenylphosphate	1120069	LCS Dup	587	2000	ug/L	29.4	0.100 - 172	126392783
Tributylphosphate	2300153	Unknown	0.534	1.98	ug/L	27.0	0.100 - 106	126392784
Triphenylphosphate	2300153	Unknown	0.485	1.98	ug/L	24.5	0.100 - 172	126392784

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

1103826 CoC Print Group 001 of 001

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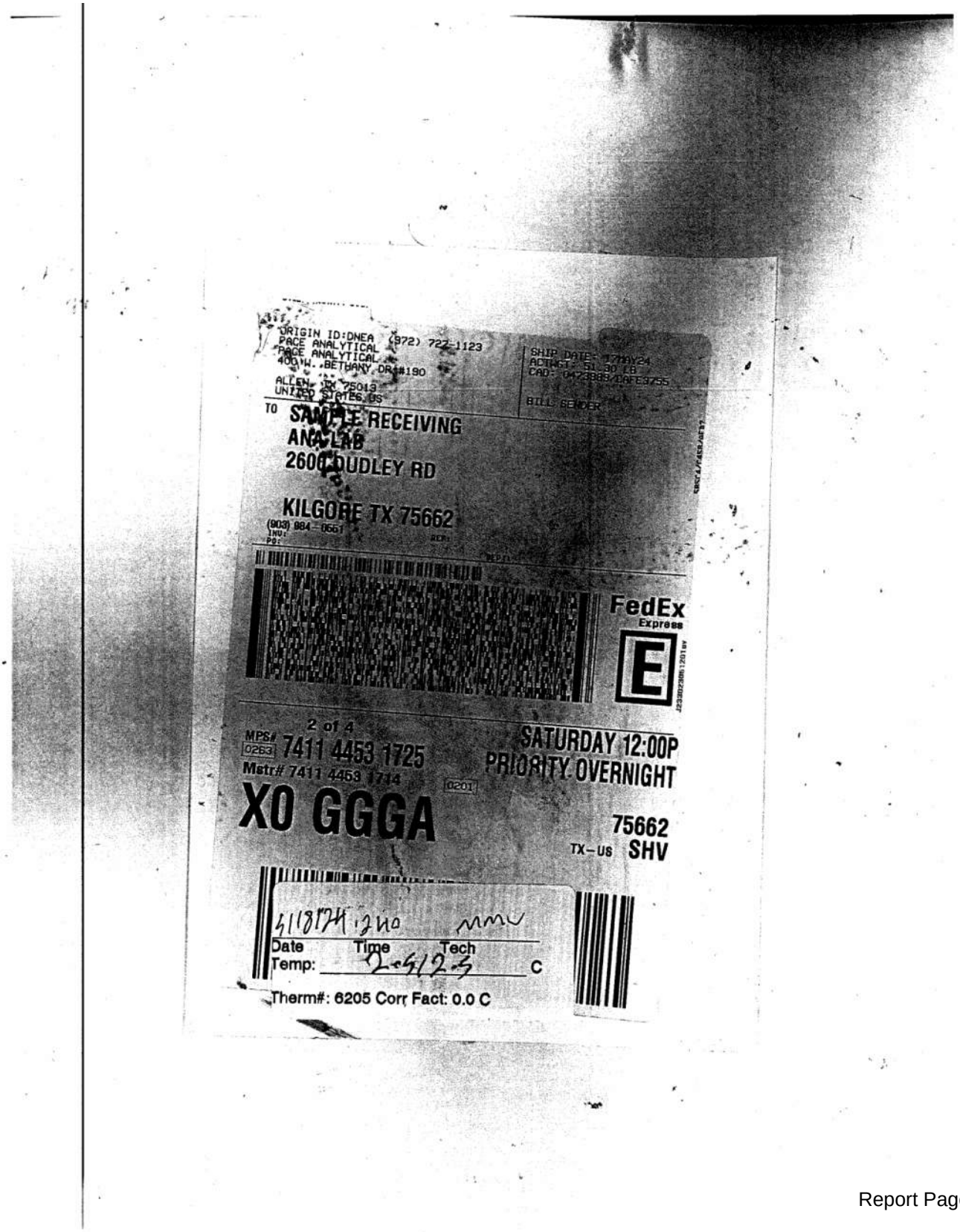
Owner Lab: PACEATX
Address: 400 W. Bethany Drive Suite 190
City/State: Allen, TX 75013
Phone: (972) 727-1123
Fax:

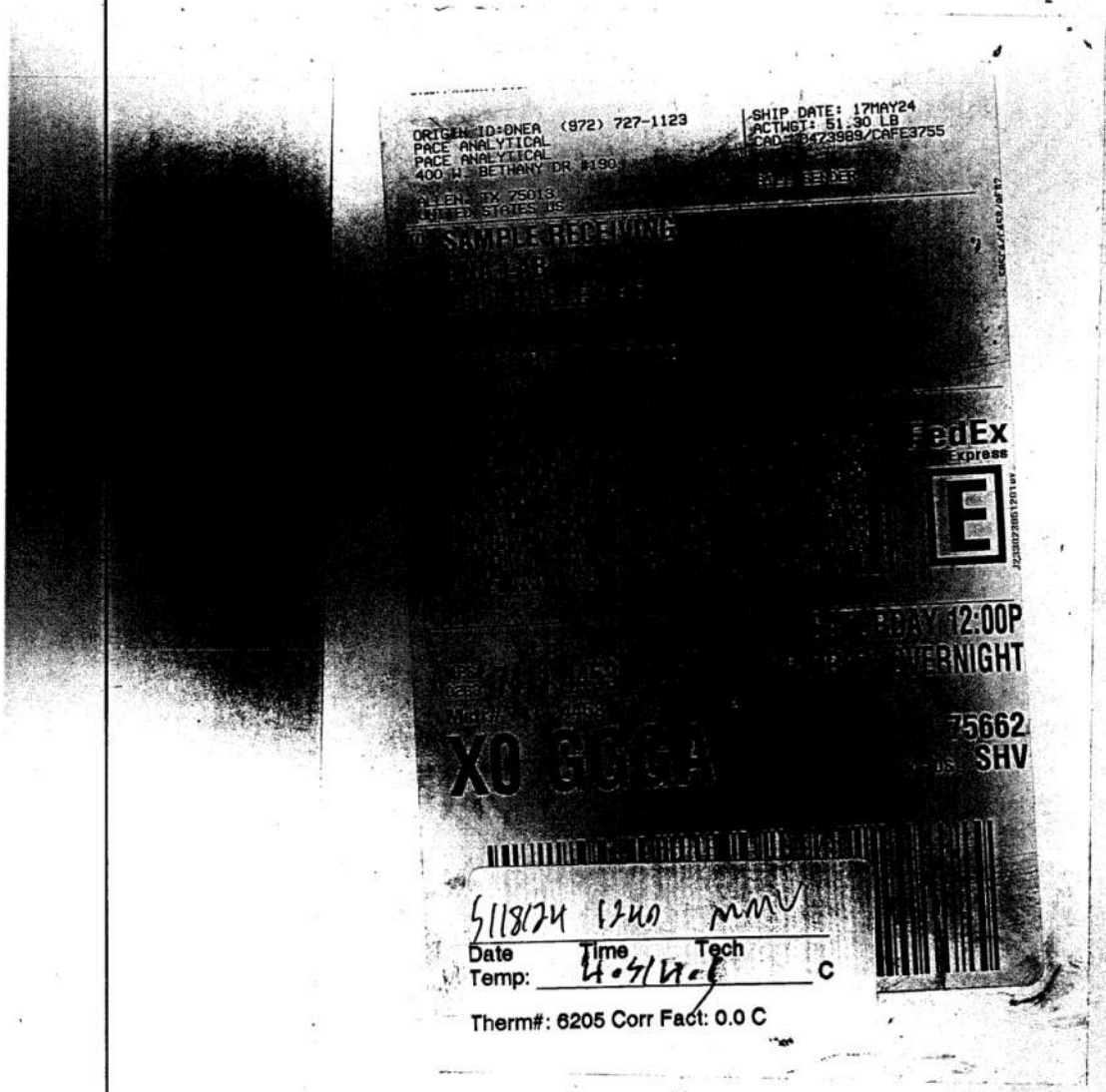
WO: WG2288496
Email: Dallas_Sub@pacelabs.com
Results Due Date: 05/30/24
ESC Purchase Order #: L1736404
Send Reports to: Aysen Ramos

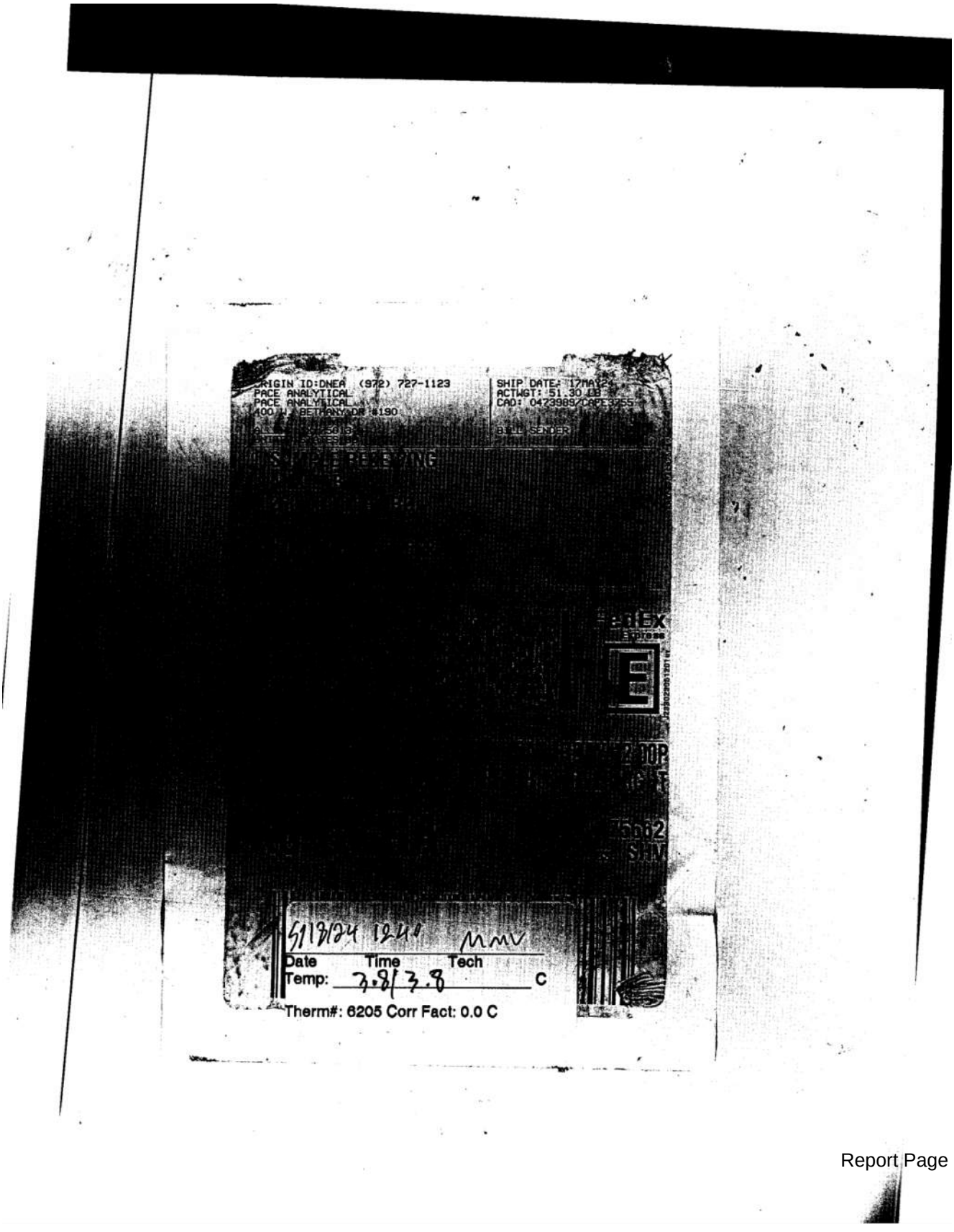
Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
EFFLUENT S47273252 S47273253 S47273257 S47273258 S47273259	WW	TX	05/14/24 22:00	1657		1. L1736404-02	
EFFLUENT S47273257*	WW	TX	05/14/24 22:00	604.1	604.1	2. L1736404-02	
EFFLUENT S47273257* S47273260 S47273261	WW	TX	05/14/24 22:00	608 ✓		3. L1736404-02	
EFFLUENT S47273257* S47273262 S47273263	WW	TX	05/14/24 22:00	615	615	4. L1736404-02	
EFFLUENT S47273244 S47273245 S47273257*	WW	TX	05/14/24 22:00	617 ✓	617	5. L1736404-02	
EFFLUENT S47273257*	WW	TX	05/14/24 22:00	632	632	6. L1736404-02	

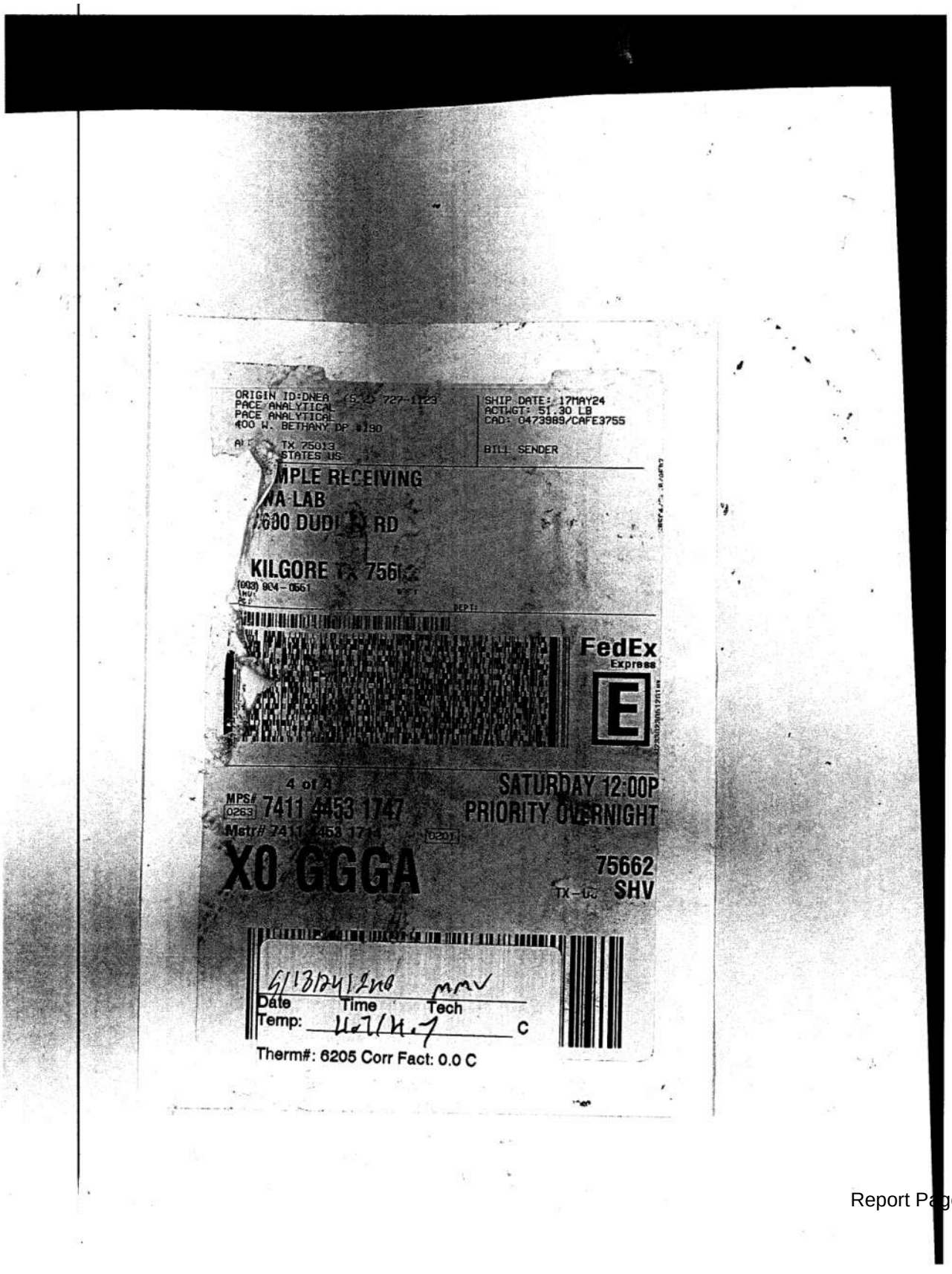
*– Container used for multiple Samples and/or Analyses

Relinquished by: Aysen Ramos/PACE Date 5/17/24 1700
Recieved by: FedEx Date 5/17/24 1711
Relinquished by: FedEx Date 5/17/24 1028
Recieved by: [illegible] Date 5/17/24 1028

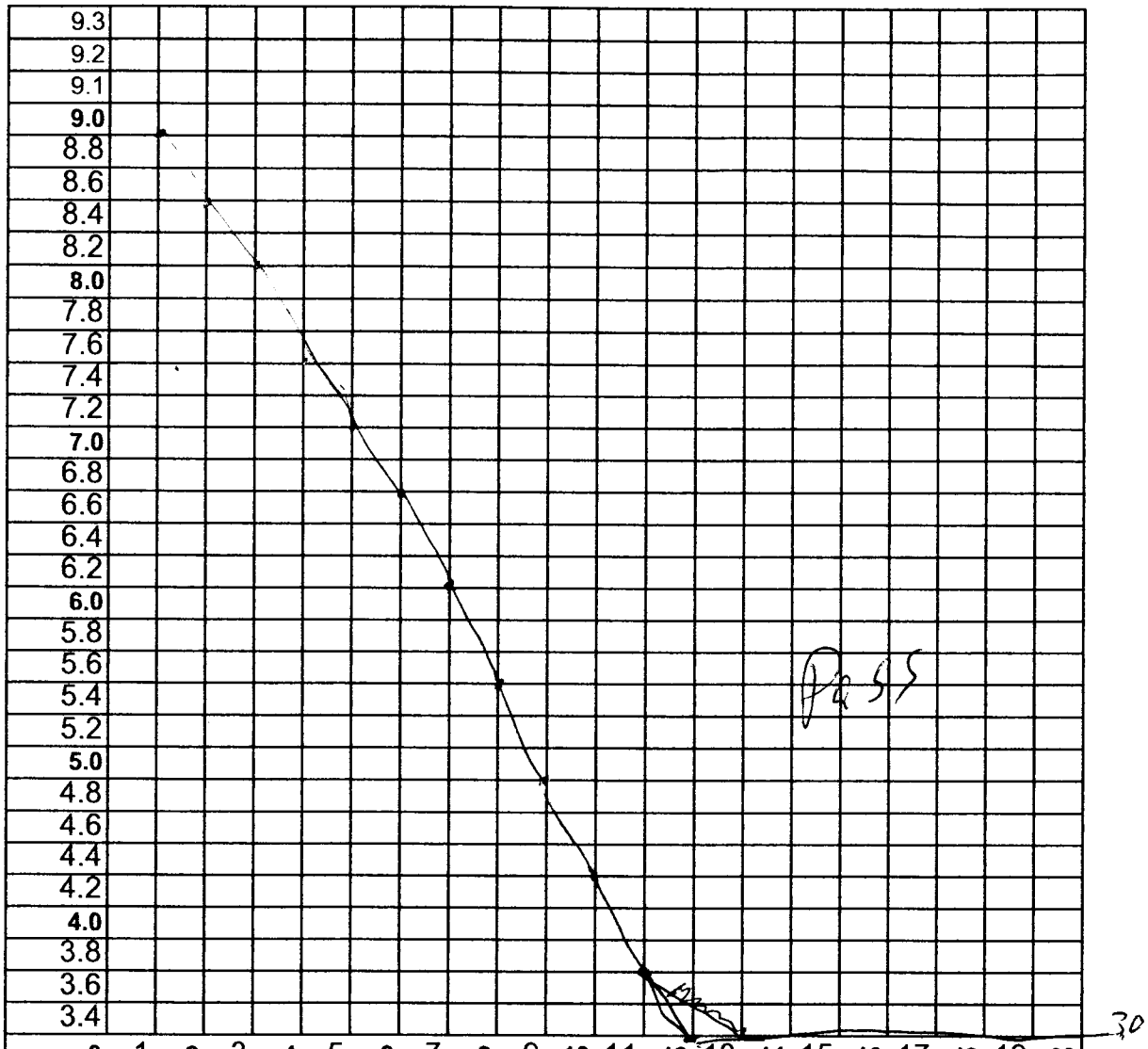

ORIGIN ID:DNEA (972) 722-1123
PACE ANALYTICAL
PACE ANALYTICAL
400 W. BETHANY DR #190
ALLEN, TX 75013
UNITED STATES US
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 6472883/CAFE3755
BILL SENDER
TO SAMPLE RECEIVING
ANALAB
2600 DUDLEY RD
KILGORE TX 75662
(903) 984-0551
INV:
PO:
DEPT:
FedEx
Express
2 of 4
MPS#
0263
7411 4453 1725
Mstr# 7411 4453 1714
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO GGGA
75662
TX-US SHV
Date
Time
Tech
Temp:
C
Therm#: 6205 Corr Fact: 0.0 C


ORIGIN ID:DNEA (972) 727-1123
PACE ANALYTICAL
PACE ANALYTICAL
400 W BETHANY DR #190
ALLEN TX 75013
UNITED STATES US
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
SAMPLE RECEIVING
FedEx
Express
12:00P
NIGHT
5662
SHV
XO
5/18/24 1240 MM
Date Time Tech
Temp: 4.5/4.6 C
Therm#: 6205 Corr Fact: 0.0 C


ORIGIN ID:DNEA (972) 727-1123
PACE ANALYTICAL
PACE ANALYTICAL
400 W BETHANY DR #190
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 0473989/CAFE3755
BILL SENDER
5/18/24 1240 MMV
Date Time Tech
Temp: 3.8/3.8 C
Therm#: 6205 Corr Fact: 0.0 C


ORIGIN ID:DNEA (512) 727-1123
PACE ANALYTICAL
PACE ANALYTICAL
4000 W. BETHANY DR #190
TX 75013
STATES US
SHIP DATE: 17MAY24
ACTWGT: 51.30 LB
CAD: 0473989/CAFE3755
BILL SENDER
MPLE RECEIVING
NA LAB
600 DUDL RD
KILGORE TX 7566
(903) 984-0561
DEPT:
FedEx
Express
4 of 4
MPS#
0263 7411 4453 1747
Mstr# 7411 4453 1714
0201
SATURDAY 12:00P
PRIORITY OVERNIGHT
XO GGGA
75662
TX-US
SHV
5/18/24 12:00 mmv
Date Time Tech
Temp: 4.7 C
Therm#: 6205 Corr Fact: 0.0 C

CITY OF PARIS
WASTEWATER TREATMENT PLANT
S.O.U.R. TEST



BEGIN D.O. 8.9 mg/L MINUS
END D.O. 3.0 mg/L
EQUALS 5.9 mg/L

/MIN= .39 mg/L/Min (A)

VSS: 2350 mg/L
DIVIDED BY 1000=
(B) VSS: 2.350 g/L

SOUR= A / B X 60= .92 mg/g/hr

SAMPLE LOCATION: Reactor #3

PASS : <= 1.5 mg/g/hr
FAIL : > 1.5 mg/g/hr

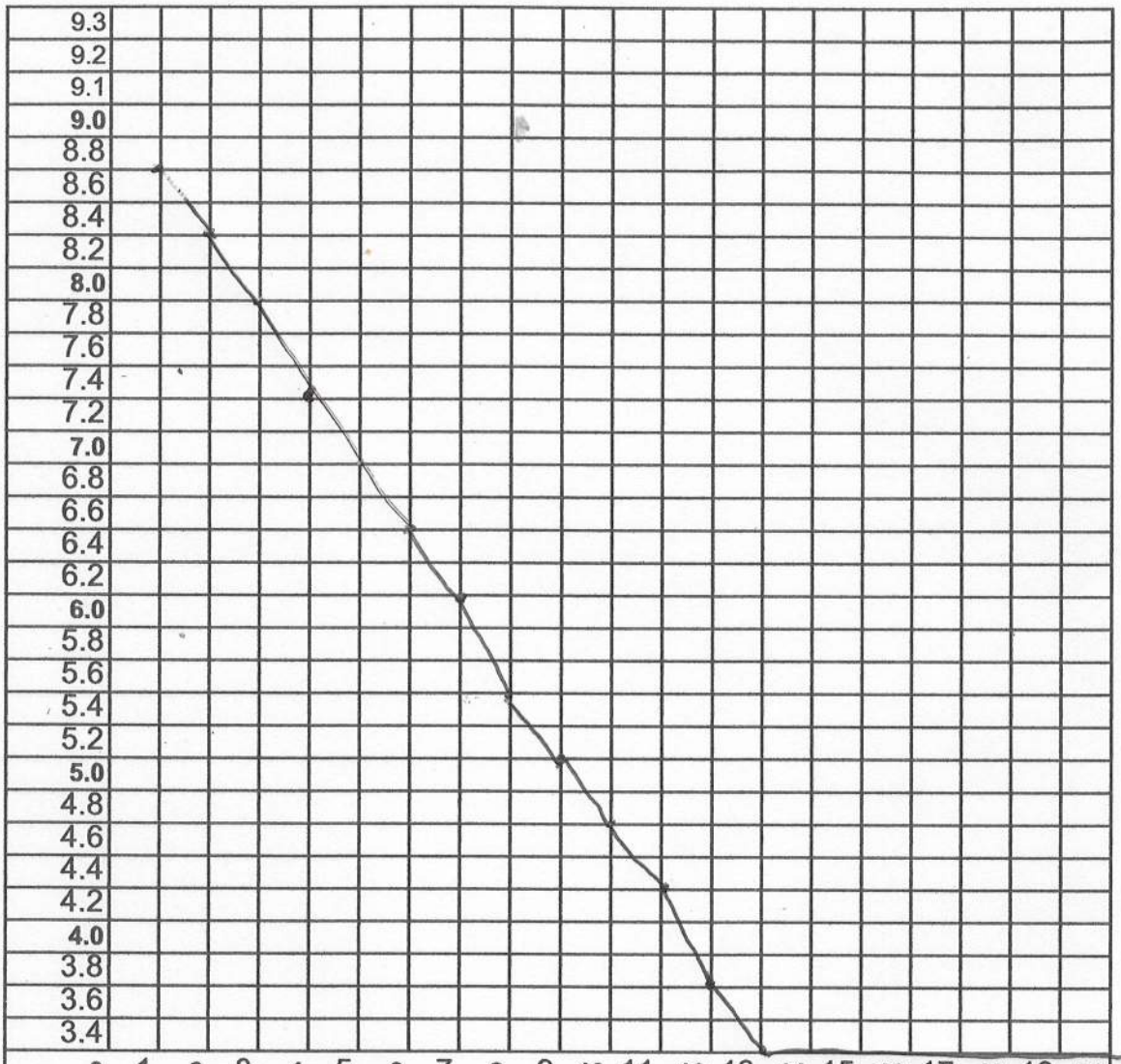
START TIME : 10:50
END TIME : 11:05
pH START : 6.98
pH END : 6.94

TEMPERATURE START: 20.2 °C
TEMPERATURE END : 20.2 °C

DATE : 5/27/14 OPERATOR: Kyle B Sisk (Print First & Last Name) KBS (Initials)

C:\My Documents\Logs-2006\Sour Test

CITY OF PARIS
WASTEWATER TREATMENT PLANT
S.O.U.R. TEST



4th quarter 2024

BEGIN D.O.	8.7 mg/L	MINUS	
END D.O.	2.8 mg/L		
EQUALS	5.9 mg/L		
/MIN=	.39 mg/L/Min	(A)	

VSS: 16,4500 mg/L
DIVIDED BY 1000=
(B) VSS: 164.500 g/L

SOUR= A/B X 60= .14 mg/g/hr

PASS

SAMPLE LOCATION: South Holding Tank

PASS : <= 1.5 mg/g/hr
FAIL : > 1.5 mg/g/hr

START TIME : 09:35
END TIME : 09:50
pH START : 6.84
pH END : 6.87

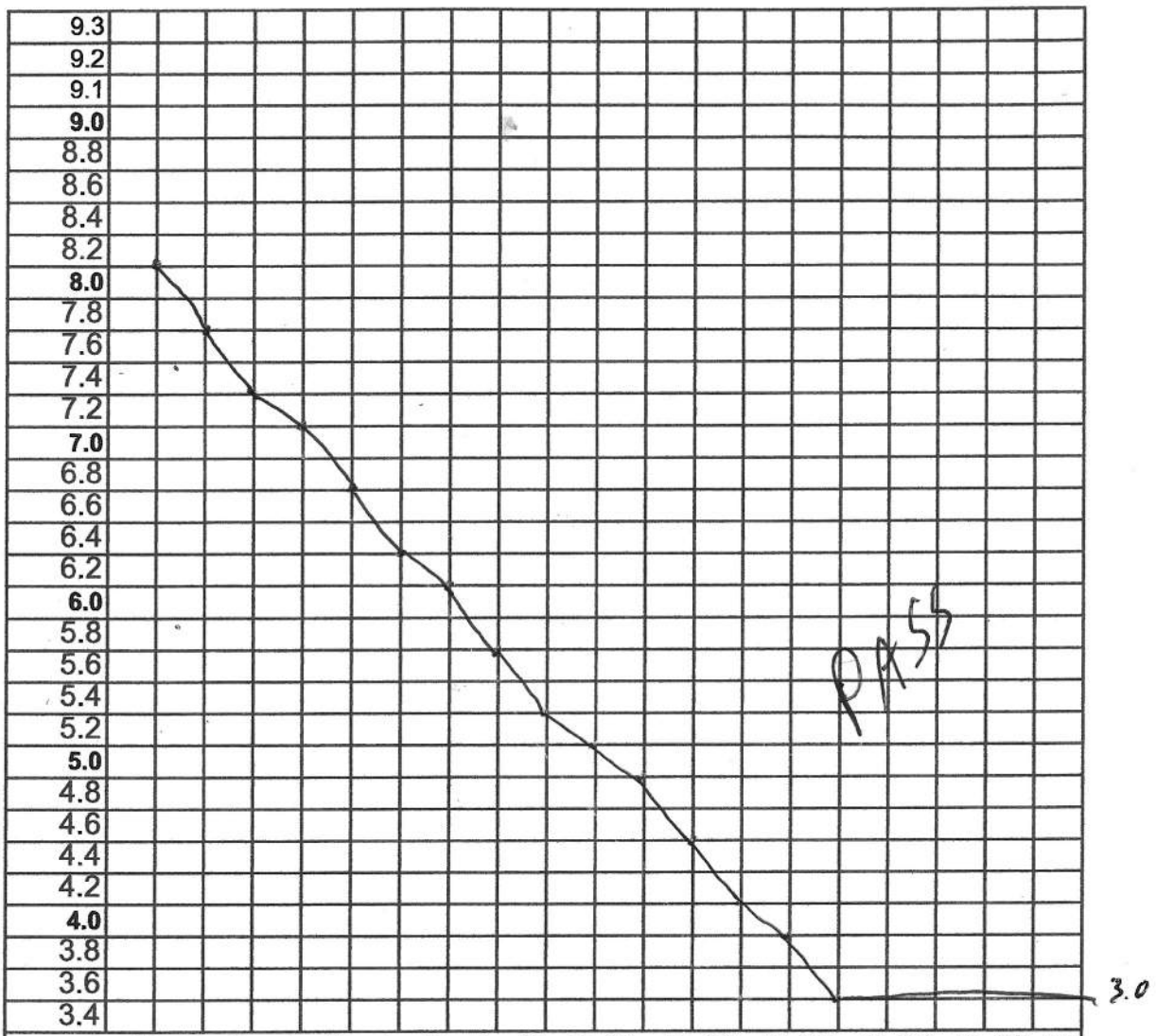
TEMPERATURE START: 20.1 °C
TEMPERATURE END : 20.1 °C

DATE : 6/14/24

OPERATOR: Brad Sulser (Print First & Last Name) LJBS (Initials)

C:\My Documents\Logs-2006\Sour Test

CITY OF PARIS
WASTEWATER TREATMENT PLANT
S.O.U.R. TEST



BEGIN D.O.	8.0	mg/L	MINUS
END D.O.	3.0	mg/L	
EQUALS	5.0	mg/L	
/MIN=	.33	mg/L/Min	(A)

VSS: 2050 mg/L
DIVIDED BY 1000=
(B) VSS: 2.05 g/L

SOUR= A/B X 60= .54 mg/g/hr

SAMPLE LOCATION: North Cooling Tank

PASS : <= 1.5 mg/g/hr
FAIL : > 1.5 mg/g/hr

START TIME : 08:42
END TIME : 08:55
pH START : 7.09
pH END : 7.08

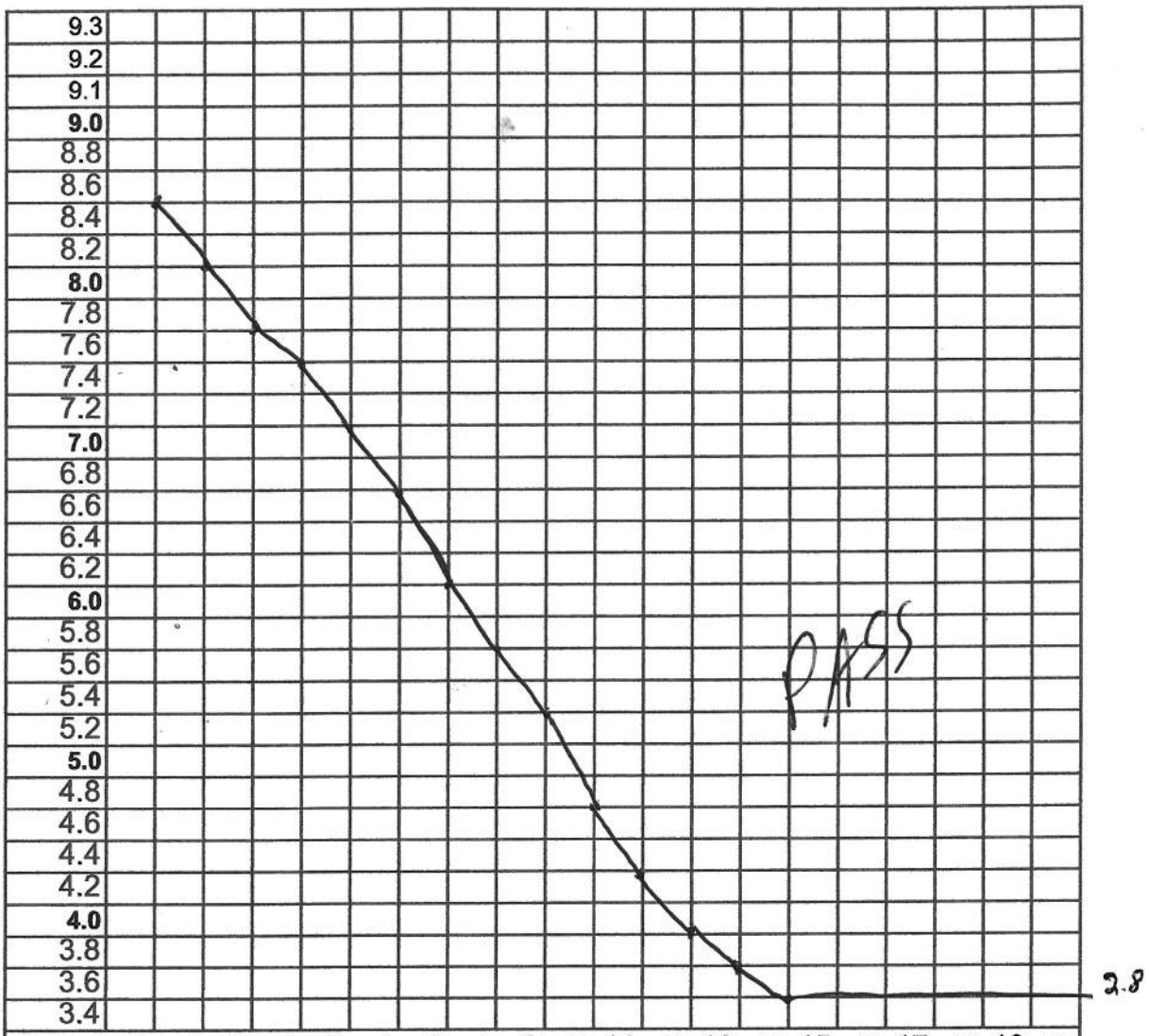
TEMPERATURE START: 20.2 °C
TEMPERATURE END : 20.6 °C

DATE : 10/10/23

OPERATOR: Kyle B Sulser (Print First & Last Name) KBS (Initials)

C:\My Documents\Logs-2006\Sour Test

CITY OF PARIS
WASTEWATER TREATMENT PLANT
S.O.U.R. TEST



BEGIN D.O.	8.4 mg/L	MINUS	
END D.O.	2.8 mg/L		
EQUALS	5.6 mg/L		
/MIN=	.37 mg/L/Min	(A)	

VSS: 23300 mg/L
DIVIDED BY 1000=
(B) VSS: 23.300 g/L

SOUR= A/B X 60= .95 mg/g/hr

SAMPLE LOCATION: North Cooling TANK

START TIME : 13:10
END TIME : 13:25
pH START : 7.03
pH END : 7.05

PASS : <= 1.5 mg/g/hr
FAIL : > 1.5 mg/g/hr

TEMPERATURE START: 20.1 °C
TEMPERATURE END : 20.3 °C

DATE : 12/5/23

OPERATOR: Kyle B Sisler (Print First & Last Name) KBS (Initials)

C:\My Documents\Logs-2006\Sour Test

Water Balance Submission not applicable to this renewal.

Candice Calhoun

From: Danny Rowell <drowell@paristexas.gov>
Sent: Friday, January 10, 2025 1:20 PM
To: Candice Calhoun
Subject: Re: Application to Renew Permit No. WQ0010479002 - City of Paris
Attachments: USGS Map.pdf; Municipal Discharge Renewal Spanish NORI.docx

Good afternoon, Candice.

In reference to the Notice of Deficiency (NOD),

The attached documentation addresses the requested additional information needed to declare the application administratively complete.

Thank you and Kind regards,

Danny Rowell

Interim Director of Utilities

(903) 784-2464

paristexas.gov

City of Paris
PO Box 9037
Paris, TX 75461-9037

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, January 10, 2025 8:04 AM
To: Danny Rowell <drowell@paristexas.gov>
Cc: Kenda Fortner <kfortner@paristexas.gov>
Subject: Application to Renew Permit No. WQ0010479002 - City of Paris

Good morning, Mr. Rowell,

Candice Calhoun

From: Danny Rowell <drowell@paristexas.gov>
Sent: Monday, January 13, 2025 8:22 AM
To: Candice Calhoun
Subject: Re: Application to Renew Permit No. WQ0010479002 - City of Paris

Good morning, Candice.

In response to item #2, the following information should be changed to:

Paris City Hall Annex,
150 SE 1st Street,
Lamar County, Texas

Thanks

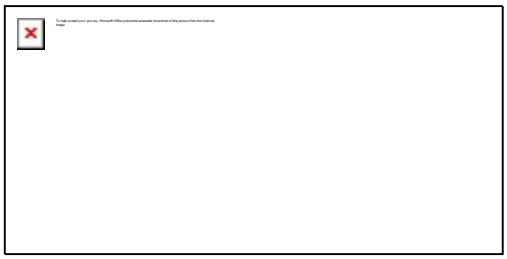
Danny Rowell

Interim Director of Utilities

(903) 784-2464

paristexas.gov

City of Paris
PO Box 9037
Paris, TX 75461-9037



From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, January 13, 2025 7:36 AM
To: Danny Rowell <drowell@paristexas.gov>
Subject: RE: Application to Renew Permit No. WQ0010479002 - City of Paris

Good morning, Mr. Rowell,

Thank you, your response to items 1 and 3 of the NOD are sufficient. However, a response for item 2 was not received. Please provide a response to this item.

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

Attachment B: USGS Map

PAT MAYSE LAKE EAST QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

Sludge Disposal Site

City of Paris
Wastewater Treatment
Plant Boundary

Point of
Discharge

City of Paris
Applicant
Property
Boundary

3 miles
downstream

1.00 mi

CAMP MAXEY

Powderly

Casey Cem

McEwin Cem

Caviness

Restlawn Cem

Reno

Givens

Hicks Cr

Lamar Lake

Crooked Cr

Pine Cr

Lake Crook

Little Pine Cr

CO RD 34710
CO RD 33800
CO RD 33810
MILITARY RD
GATE 2 RD
CO RD 33715
CAVINESS RD
CO RD 32500
CO RD 33920
CO RD 33840
CO RD 33850
CO RD 33620
CO RD 32505
CO RD 32200
CO RD 32230
CO RD 31100
CO RD 33970
NAVAJO TRL
CO RD 33980
CO RD 44060
CO RD 44050
CO RD 44100
CO RD 44410
CO RD 43200
CO RD 43270
CO RD 42200
CO RD 42400
CO RD 42000
CO RD 42230
CR 32900
CR 31700
CR 32500
CR 42200
CR 42400
N MAIN ST
STILLHOUSE RD
BEAVER CREEK RD
TIMBER LAKE DR
RED OAK CIR
OAK HILL
CRIPPLE CREEK
LARAMIE LAKE DR
DOE RUN
FM 2648
FM 1499
FM 79
FM 195
SPR 139
NW LOOP 286
19TH ST NW
10TH ST NE
36TH ST NE
E CENTER ST
W CENTER ST
CLEMENT RD
STONE AVE
DESHONG DR
LEWIS LN
SUMMERHILL RD
ABBY LN
LAKESHORE DR
SMALLWOOD RD
ASPEN
OAK CREEK DR
PR 1095
271
82
286
19
24

2 870 000 FEET
2 850 000 FEET
7 340 000 FEET
7 330 000 FEET

SCALE 1:24 000

Produced by the United States Geological Survey

ROAD CLASSIFICATION

PARIS QUADRANGLE
TEXAS-LAMAR CO.
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 15S
10 000-foot ticks: Texas Coordinate System of 1983 (north central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, July 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN 2° 43′ 48 MILS
GN 1° 25′ 25 MILS

U.S. National Grid
100,000-m Square ID
TT
Grid Zone Designation
15S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1	2	3
4		5
6	7	8

1 Pat Mayse Lake West
2 Pat Mayse Lake East
3 Slate Shoals
4 Toco
5 Blossom
6 Roxton
7 Biardstown
8 Pattonville
ADJOINING QUADRANGLES

PARIS, TX
2016