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

Northampton MUD – TPDES Renewal
Plain Language Summary

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

Northampton Municipal Utility District (CN600623995) operates the Northampton MUD Wastewater Treatment Facility (RN102845989), an activated sludge process plant operated in the single stage nitrification mode. The facility is located approximately 1,100 feet west of the intersection of Gosling Road and Dovershire Drive, about 6 miles northwest of Spring, Harris County, 77389.

This application is for a renewal to discharge at an annual average flow of 1,850,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7, Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

Spanish Translation

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 exige 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 federal. representaciones ejecutables de la solicitud de permiso.

El Distrito Municipal de Servicios Públicos de Northampton (CN600623995) opera la Instalación de Tratamiento de Aguas Residuales MUD de Northampton (RN102845989), una planta de proceso de lodos activados que opera en el modo de nitrificación de una sola etapa. La instalación está ubicada aproximadamente a 1,100 pies al oeste de la intersección de Gosling Road y Dovershire Drive, a unas 6 millas al noroeste de Spring, Condado de Harris, 77389.

Esta solicitud es para una renovación para descargar a un flujo promedio anual de 1,850,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco (5) días, sólidos suspendidos totales (TSS) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7, Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas mediante una planta de

Northampton MUD – TPDES Renewal
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010910001

APPLICATION. Northampton Municipal Utility District, 6012A Root Road, Spring, Texas 77389, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010910001 (EPA I.D. No. TX0058548) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,850,000 gallons per day. The domestic wastewater treatment facility is located at located 1,100 feet west of the intersection of Dovershire Drive and Gosling Road, near the city of Spring, in Harris County, Texas 77389. The discharge route is from the plant site to Willow Creek; thence to Spring Creek. TCEQ received this application on August 28, 2024. The permit application will be available for viewing and copying at Barbara Bush Public Library, 6817 Cypresswood Drive, Spring, in Harris 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=-95.510277,30.115833&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 Northampton Municipal Utility District at the address stated above or by calling Mr. Jonathan Nguyen, Permit Specialist/Quiddity Engineering LLC, at 512-685-5156.

Issuance Date: September 19, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010910001

SOLICITUD. Distrito de servicios públicos municipales de Northampton, 6012A Root Road, Spring, Texas 77389, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010910001 (EPA I.D. No. TX0058548) 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 1,850,000 galones por día. La planta está ubicada 1,100 pies al oeste de la intersección de Dovershire Drive y Gosling Road, cerca de la ciudad de Spring, en el condado de Harris, Texas 77389. La ruta de descarga es del sitio de la planta a Willow Creek; de allí a Spring Creek. La TCEQ recibió esta solicitud el 28 de agosto de 2024. La solicitud para el permiso está disponible para leerla y copiarla en Biblioteca Barbara Bush Public Library, 6817 Cypresswood Drive, Spring, condado de Harris, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.510277,30.115833&level=18

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

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

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

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

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

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

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

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Distrito de servicios públicos municipales de Northampton a la dirección indicada arriba o llamando a Sr. Jonathan Nguyen, Quiddity Engineering, al 512-685-5156.

Fecha de emisión 19 de septiembre de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 28, 2024

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

Dear Applicant:

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

ER Account Number: ER084462
Application Reference Number: 657554
Authorization Number: WQ0010910001
Site Name: Northampton Mud
Regulated Entity: RN102845989 - Northampton Mud
Customer(s): CN600623995 - Northampton Municipal Utility District

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

WQ0010910001

Site Information (Regulated Entity)

What is the name of the site to be authorized?	NORTHAMPTON MUD
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	LOCATED 1 100 FT W OF THE INTERX OF GOSLING RD AND DOVERSHIRE RD
City	SPRING
State	TX
ZIP	77389
County	HARRIS
Latitude (N) (##.######)	30.115833
Longitude (W) (-###.######)	-95.510277
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	221320
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN102845989
What is the name of the Regulated Entity (RE)?	NORTHAMPTON MUD
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	LOCATED 1 100 FEET WEST OF THE INTERSECTION OF GOSLING ROAD AND DOVERSHIRE ROAD APPROXIMATELY 6 MILES NORTHWEST OF SPRING
City	HOUSTON
State	TX
ZIP	77389
County	HARRIS
Latitude (N) (##.######)	
Longitude (W) (-###.######)	
Facility NAICS Code	
What is the primary business of this entity?	DOMESTIC

Northam-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600623995
Type of Customer	Other Government
Full legal name of the applicant:	
Legal Name	Northampton Municipal Utility District
Texas SOS Filing Number	
Federal Tax ID	

State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Northampton Municipal Utility District
Prefix	MS
First	ALISA
Middle	
Last	JUNE
Suffix	
Credentials	
Title	GENERAL MANAGER
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	6012A ROOT RD
Routing (such as Mail Code, Dept., or Attn:)	
City	SPRING
State	TX
ZIP	77389
Phone (###-###-####)	2813763499
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	AJJUNE@NHMUD.COM

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600623995, Northampton Municipal Utility District
Organization Name	L&S District Services LLC
Prefix	MS
First	Debra
Middle	
Last	Loggns
Suffix	
Credentials	
Title	Bookkeeper
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 170
Routing (such as Mail Code, Dept., or Attn:)	

City	TOMBALL
State	TX
ZIP	77377
Phone (###-###-####)	2813567542
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	2812528795
E-mail	debraloggins@gmail.com

Application Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	Quiddity Engineering LLC
Prefix	MR
First	JONATHAN
Middle	
Last	NGUYEN
Suffix	
Credentials	
Title	PERMIT SPECIALIST
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3100 ALVIN DEVANE BLVD STE 150
Routing (such as Mail Code, Dept., or Attn:)	
City	AUSTIN
State	TX
ZIP	78741
Phone (###-###-####)	5124419493
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JNGUYEN@JONESCARTER.COM

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	
Organization Name	Quiddity Engineering LLC
Prefix	MR
First	Steve
Middle	
Last	Barry
Suffix	
Credentials	PE
Title	PERMIT ENGINEER
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1575 SAWDUST RD
Routing (such as Mail Code, Dept., or Attn:)	SUITE 400
City	THE WOODLANDS
State	TX
ZIP	77380
Phone (###-###-####)	2813634039
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	SBARRY@QUIDDITY.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	
Organization Name	WATER DISTRICT MANAGEMENT
Prefix	MR
First	JIM
Middle	
Last	FGERGUSON
Suffix	
Credentials	
Title	OPERATOR
Enter new address or copy one from list:	

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	PO BOX 579
Routing (such as Mail Code, Dept., or Attn:)	
City	SPRING
State	TX
ZIP	77383
Phone (###-###-####)	2813768802
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JFERGUSON@WDMTEXAS.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	CN600623995, Northampton Municipal Utility District
2) Organization Name	Northampton Municipal Utility District
3) Prefix	MS
4) First	ALISA
5) Middle	

6) Last	JUNE
7) Suffix	
8) Credentials	
9) Title	GENERAL MANAGER
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	6012A ROOT RD
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	SPRING
11.4) State	TX
11.5) ZIP	77389
12) Phone (###-###-####)	2813763499
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	AJJUNE@NHMUD.COM

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	
3) Organization Name	NORTHAMPTON MUNICIPAL UTILITY DISTRICT
4) Mailing Address	6012A ROOT ROAD
5) City	SPRING
6) State	TX
7) Zip Code	77389
8) Phone (###-###-####)	2813763499
9) Extension	
10) Email	AJJUNE@NHMUD.COM
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	NORTHAMPTON MUNICIPAL UTILITY DISTRICT
15) Mailing Address	6012A ROOT RAOD
16) City	SPRING
17) State	TX
18) Zip Code	77389
19) Phone (###-###-####)	2813763499
20) Extension	
21) Email	AJJUNE@NHMUD.COM
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	03/09/2025
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?	Renewal without changes
5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	1.85
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?	TX0058548
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):	SPRING TX
6.5) County where the outfalls are located:	HARRIS
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?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	Yes
7.1) List each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:	JONATHAN NGUYEN

Public Notice Information

Individual Publishing the Notices	
1) Prefix	MR
2) First and Last Name	JONATHAN NGUYEN
3) Credential	
4) Title	PERMIT SPECIALIST
5) Organization Name	QUIDDITY ENGINEERING LLC
6) Mailing Address	3100 ALVIN DEVANE BLVD
7) Address Line 2	SUITE 150
8) City	AUSTIN
9) State	TX
10) Zip Code	78741
11) Phone (###-###-####)	5126855156
12) Extension	
13) Fax (###-###-####)	
14) Email	NGUYEN@QUIDDITY.COM
Contact person to be listed in the Notices	
15) Prefix	MR
16) First and Last Name	JONATHAN NGUYEN
17) Credential	
18) Title	PERMIT SPECIALIST
19) Organization Name	QUIDDITY ENGINEERING LLC
20) Phone (###-###-####)	5126855156
21) Fax (###-###-####)	
22) Email	JNGUYEN@QUIDDITY.COM

Bilingual Notice Requirements

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

Section 1# Public Viewing Information

County#: 1

1) County	HARRIS
2) Public building name	BARBARA BUSH BRANCH LIBRARY
3) Location within the building	REFERENCE DESK
4) Physical Address of Building	6817 CYPRESSWOOD DRIVE
5) City	SPRING TX
6) Contact Name	SHANE HARRIS
7) Phone (###-###-####)	8329277800
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_Municipal TPDES and TLAP PLS_CABO SPANISH.pdf
Hash	D0F77BEB91A906F97535ACE53AA0BFB311B980E2B39B351365F3A5762A00FCC4
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_SPIF - NH.pdf
Hash	832F9285B0E84DF0C7061E188C92B940218F2D6A0E2026DC0F8BA2F218920634
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_Attach C - USGS.pdf

Hash	F203176291EAD16B70366F959BFA45E448B7AAB4962F8F6D2BD30BD3A7CAEE95
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
2.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	Yes
2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	Yes
2.5) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
2.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

2.7) Technical Attachment

[File Properties]

File Name	TECH_Attach D - Application Technical Reports.pdf
Hash	77D42E76E6110A4CADCC91ADAC9083C32C20CD9090611C2538FDCAB6C8ACC2A9
MIME-Type	application/pdf

3) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_Unneeded attachments.pdf
Hash	2F4B0CC99C24A753ADA9CDA625A58892ADB4E1E7267D97873D47A6FF73F7BE52
MIME-Type	application/pdf

4) Flow Diagram

[File Properties]

File Name	FLDIA_Attach E - Schematics.pdf
Hash	08CC4F1B7F32420BDED3CA84F64C16DA799959F60E8A4375A583008159774782
MIME-Type	application/pdf

5) Site Drawing

[File Properties]

File Name	SITEDR_Attach F - Service area map.pdf
Hash	017AC0DB6E424924B0C85238C1E008A50CBA3A613EC459124A4E640395AED454
MIME-Type	application/pdf

6) Design Calculations

[File Properties]

File Name	DES_CAL_Attach G - Treatment Units.pdf
Hash	5567CE8EEA9B7B2909A5AB3E282606ED213E71B073CA22C595A738CD9716F1DE
MIME-Type	application/pdf

7) Solids Management Plan

[File Properties]

File Name	SMP_Attach H - Sludge plan.pdf
Hash	1E79E183E0F3C7D7573A30DCF4D482691209E4E2FB3D75E303631409E5B54D93

MIME-Type	application/pdf

8) Water Balance

[File Properties]	
File Name	WB_Unneeded attachments.pdf
Hash	2F4B0CC99C24A753ADA9CDA625A58892ADB4E1E7267D97873D47A6FF73F7BE52
MIME-Type	application/pdf

9) Other Attachments

[File Properties]	
File Name	OTHER_Attach A - PLS.pdf
Hash	6E34809A7D453DD1D87EA3E0F7D888EF65BB4214ABBC06DE7437FA706EF4EC43
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_Attach B - SPIF.pdf
Hash	48F98AA81E49F641046EB4527137F90016469566888F0C8C3832D5F3DE3FBDBB
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_Attach I - Core data.pdf
Hash	2E0DD5865DFB28625A7C732767347182796223752 9D92766C239BA9BCADE5DF2
MIME-Type	application/pdf

[File Properties]	
File Name	OTHER_Attach J - Eff Analysis.pdf
Hash	113032534E21148423D3FBCCE7F0CDAA67AF8D1D50A4BD80976D2402A561DBCD
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 Alisa June, the owner of the STEERS account ER084462.
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 WQ0010910001.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Alisa June OWNER

Customer Number:	CN600623995

Legal Name:	Northampton Municipal Utility District
Account Number:	ER084462
Signature IP Address:	12.88.34.246
Signature Date:	2024-08-28
Signature Hash:	90CE96ACF31CE5FF7E4A6D154E86DFD9EB4CDCB87BB72998132773F8E9F7B82A
Form Hash Code at time of Signature:	6C3A025FDB864660AB13CE005DAF6C473662BF378AA4FD0F7F76F975C465E863

Fee Payment

Transaction by:	The application fee payment transaction was made by ER084462/Alisa June
Paid by:	The application fee was paid by ALISA JUNE
Fee Amount:	$2000.00
Paid Date:	The application fee was paid on 2024-08-28
Transaction/Voucher number:	The transaction number is 582EA000623376 and the voucher number is 719157

Submission

Reference Number:	The application reference number is 657554
Submitted by:	The application was submitted by ER084462/Alisa June
Submitted Timestamp:	The application was submitted on 2024-08-28 at 11:31:32 CDT
Submitted From:	The application was submitted from IP address 12.88.34.246
Confirmation Number:	The confirmation number is 560156
Steers Version:	The STEERS version is 6.81
Permit Number:	The permit number is WQ0010910001

Additional Information

Application Creator: This account was created by Stephen Barry

ATTACHMENT A

PLAIN LANGUAGE SUMMARY

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

Northampton MUD – TPDES Renewal
Plain Language Summary

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

Northampton Municipal Utility District (CN600623995) operates the Northampton MUD Wastewater Treatment Facility (RN102845989), an activated sludge process plant operated in the single stage nitrification mode. The facility is located approximately 1,100 feet west of the intersection of Gosling Road and Dovershire Drive, about 6 miles northwest of Spring, Harris County, 77389.

This application is for a renewal to discharge at an annual average flow of 1,850,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7, Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

Spanish Translation

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 exige 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 federal. representaciones ejecutables de la solicitud de permiso.

El Distrito Municipal de Servicios Públicos de Northampton (CN600623995) opera la Instalación de Tratamiento de Aguas Residuales MUD de Northampton (RN102845989), una planta de proceso de lodos activados que opera en el modo de nitrificación de una sola etapa. La instalación está ubicada aproximadamente a 1,100 pies al oeste de la intersección de Gosling Road y Dovershire Drive, a unas 6 millas al noroeste de Spring, Condado de Harris, 77389.

Esta solicitud es para una renovación para descargar a un flujo promedio anual de 1,850,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco (5) días, sólidos suspendidos totales (TSS) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7, Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas mediante una planta de

proceso de lodos activados y las unidades de tratamiento incluyen criba de barras, balsas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto de cloro.

ATTACHMENT B

SUPPLEMENTAL PERMIT INFORMATION FORM

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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: Northampton Municipal Utility District

   Permit No. WQ00 10910001 EPA ID No. TX 0058/548

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

   Approximately 1,100 feet west of the intersection of Gosling Road and Dovershire Drive, about 6 miles northwest of Spring, Harris 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: Jonathan Nguyen

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

Title: Permit Specialist

Mailing Address: 3100 Alvin Devane Blvd., Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: 512-441-9493 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jnguyen@quiddity.com

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

The property owner is the permittee

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.

To Willow Creek; thence to Spring Creek in Segment No. 1008

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):

No caves or karst features will be disturbed

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

Existing land use is for 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:

Click here to enter text.

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

Click here to enter text.

ATTACHMENT I

CORE DATA FORM

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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 600623995		**RN 102845989**

SECTION II: Customer Information

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

☐ 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:*

Northampton Municipal Utility District

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

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

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

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

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

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

15. Mailing Address:

6363 Woodway
Suite 800

City	Houston	**State**	TX	**ZIP**	77057	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	jwallace@bwplegal.com

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

(713) 739-1060		( ) -

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.)*

Northampton MUD Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**		**ZIP**		**ZIP + 4**	
24. County	Harris							

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

25. Description to Physical Location:	1,100 feet west of the intersection of Dovershire Drive and Gosling Road				
26. Nearest City			**State**	**Nearest ZIP Code**	
Spring			TX	77389	

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:	30.116396		**28. Longitude (W) In Decimal:**	-95.510359	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Treatment of domestic wastewater

34. Mailing Address:	**P.O. Box 579**							
	City	**Spring**	**State**	**TX**	**ZIP**	**77070**	**ZIP + 4**	
35. E-Mail Address:	**jferguson@wdmtexas.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(281) 376-8802		( ) -

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
	TXR05AE86			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010910001			

SECTION IV: Preparer Information

40. Name:	Steve Barry, P.E	**41. Title:**	Permitting Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(281 **)** 363-4039		**( )** -	sbarry@quiddity.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:	Northampton MUD	**Job Title:**	General Manager
Name *(In Print):*	Alisa June	**Phone:**	**(** 713 **)** 739- **1060**
Signature:		**Date:**	

ATTACHMENT J

FINAL EFFLUENT ANALYSIS

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

June 21, 2024

Water District Management
NorthAmpton
P.O. Box 579
Spring, TX 77383

RE: **NorthAmpton Long Permit Renewal**

Enclosed are the results of analyses for samples received by the laboratory on 05/24/24 10:53, with Lab ID Number C4E5934. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

LABORATORY ANALYTICAL REPORT

Project: NorthAmpton Long Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/24/2024 00:00
Collector:
Sample Type:Composite
Print Date: 6/21/2024

Effluent Comp

C4E5934-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Metals								
-								
Aluminum - Total	17.0	2.50	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Antimony - Total	<2.00	2.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Arsenic, Total	0.966	0.500	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Barium, Total	54.8	1.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Beryllium, Total	<0.500	0.500	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Cadmium, Total	<1.00	1.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Chromium, Total	<1.00	1.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Copper, Total	4.87	1.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Lead, Total	<0.500	0.500	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Nickel, Total	<2.00	2.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Selenium, Total	<2.00	2.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Silver, Total	<0.500	0.500	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Thallium, Total	<0.500	0.500	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Zinc, Total	23.8	5.00	ug/L	A	B4E4662	05/29/2024 15:18	EPA 200.8	
Wet Lab								
-								
Chromium, (VI)	<3	3	ug/L	A	B4E5183	05/24/2024 14:15	SM 3500 Cr B	
Chromium, Trivalent	<3	3	ug/L	N	B4E5187	05/30/2024 08:57	-	
Fluoride	938	100	ug/L	A	B4E4400	05/24/2024 15:22	EPA 300.0	
Nitrate as N	19000	50.0	ug/L	A	B4E4400	05/24/2024 15:22	EPA 300.0	

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

Project: NorthAmpton Long Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/24/2024 08:00
Collector: JPM
Sample Type:Grab
Print Date: 6/21/2024

Effluent Grab

C4E5934-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Field								
Chlorine	<0.1	0.1	mg/L	N	B4E4386	05/24/2024 08:00	SM 4500 Cl F	
DO	6.7		mg/L	N	B4E4386	05/24/2024 08:00	SM 4500 O G	
pH	7.6		std unit	N	B4E4386	05/24/2024 08:00	SM 4500 H + B	
Metals								
Total Phosphorus	6.10	0.0600	mg/L	A	B4E4733	05/30/2024 11:55	EPA 200.7	
Organics								
Volatiles 624.1-Permit								
1,1,1-Trichloroethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,1,2,2-Tetrachloroethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,1,2-Trichloroethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,1-Dichloroethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,1- Dichloroethene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,2-Dibromoethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,2-Dichloroethane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,2-Dichloropropane	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
2-Chloroethyl vinyl ether	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Acrolein	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Acrylonitrile	<50.0	50.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	13
Benzene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Bromodichloromethane	18.7	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Bromoform	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Carbon Tetrachloride	<2.00	2.00	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Chlorobenzene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Chloroethane	<50.0	50.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Chloroform	28.5	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

Project: NorthAmpton Long Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/24/2024 08:00
Collector: JPM
Sample Type:Grab
Print Date: 6/21/2024

Effluent Grab

C4E5934-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Organics								
-								
Dibromochloromethane (Chlorodibromomethane)	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Cis-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Ethylbenzene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Methyl Bromide	<50.0	50.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Methyl Chloride	<50.0	50.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Methyl Ethyl Ketone	<50.0	50.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Toluene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
trans-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Trans-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Trichloroethene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Total Trihalomethanes	55.2	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Cis-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Vinyl Chloride	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
1,3-Dichloropropene	<10.0	10.0	ug/L	N	B4E4447	05/24/2024 15:41	EPA 624.1	
Methylene Chloride (Dichloromethane)	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Tetrachloroethene (Tetrachloroethylene)	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Acetone	<10.0	10.0	ug/L	A	B4E4447	05/24/2024 15:41	EPA 624.1	
Surrogate: 1,2-Dichloroethane-d4		*81.8 %*	*70-130*		*B4E4447*	05/24/2024 15:41	*EPA 624.1*	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*70-130*		*B4E4447*	05/24/2024 15:41	*EPA 624.1*	
Surrogate: Dibromofluoromethane		*92.6 %*	*70-130*		*B4E4447*	05/24/2024 15:41	*EPA 624.1*	
Surrogate: Toluene-d8		*99.3 %*	*70-130*		*B4E4447*	05/24/2024 15:41	*EPA 624.1*	
Wet Lab								
-								
Alkalinity	226	20.0	mg CaCO3/L	A	B4E5219	05/30/2024 13:37	SM 2320 B	
Ammonia as N	<0.1	0.1	mg/L	A	B4E4513	05/28/2024 14:19	SM 4500 NH3 G	

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

Project: NorthAmpton Long Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/24/2024 08:00
Collector: JPM
Sample Type:Grab
Print Date: 6/21/2024

Effluent Grab

C4E5934-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Wet Lab								
-								
CBOD 5	3.4	2.0	mg/L	A	B4E4538	05/24/2024 17:30	SM 5210 B	1, 13
Chloride	133	5.0	mg/L	A	B4E4400	05/24/2024 15:22	EPA 300.0	
Conductivity	1252	10	µmhos/cm @25C	A	B4E5171	05/30/2024 13:23	SM 2510 B	
Nitrate as N	20.4	0.05	mg/L	A	B4E4400	05/24/2024 15:22	EPA 300.0	
Oil Grease, HEM	<5.1	5.1	mg/L	A	B4F0195	06/04/2024 08:18	EPA 1664A	
Phenol, low level	54.8	10.0	ppb	A	B4F2244	06/13/2024 08:00	EPA 420.1	
Sulfate	60.7	4.0	mg/L	A	B4E4400	05/24/2024 15:22	EPA 300.0	
TDS	875	10.0	mg/L	A	B4E5153	05/30/2024 11:58	SM 2540 C	
TKN	2.0	1.0	mg/L	A	B4E4545	06/03/2024 13:13	EPA 351.2	13
TSS	2.4	1.0	mg/L	A	B4E4609	05/28/2024 10:52	SM 2540 D	25

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

EPA 300.0 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4400 - No Prep	**Prepared: 05/24/24 09:45**									
Blank (B4E4400-BLK1)				**Analyzed:** 5/24/2024 9:45:00AM						
Chloride	ND	5.0	mg/L							
Nitrate as N	ND	0.05	mg/L							
Sulfate	ND	4.0	mg/L							
Fluoride	ND	100	ug/L							
Nitrate as N	ND	50.0	ug/L							
LCS (B4E4400-BS1)				**Analyzed:** 5/24/2024 9:45:00AM						
Chloride	22.5		mg/L	25.0		90.1	90-110			
Fluoride	0.471		mg/L	0.500		94.2	90-110			
Nitrate as N	1.3842		mg/L	1.50		92.3	90-110			
Sulfate	18.0		mg/L	20.0		90.0	90-110			
Matrix Spike (B4E4400-MS1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 9:45:00AM						
Chloride	261	5.0	mg/L	125	159	81.6	80-120			
Nitrate as N	16.53	0.05	mg/L	7.50	11.0885	72.6	80-120			23
Sulfate	124	4.0	mg/L	100	33.2	90.5	80-120			
Fluoride	2390	100	ug/L	2500	222	86.8	80-120			
Nitrate as N	16530	50.0	ug/L	7500	11088.5	72.6	80-120			23
Matrix Spike Dup (B4E4400-MSD1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 9:45:00AM						
Chloride	262	5.0	mg/L	125	159	81.9	80-120	0.154	20	
Nitrate as N	16.5168	0.05	mg/L	7.50	11.0885	72.4	80-120	0.0799	20	
Sulfate	123	4.0	mg/L	100	33.2	90.2	80-120	0.192	20	
Fluoride	2400	100	ug/L	2500	222	87.2	80-120	0.459	20	
Nitrate as N	16516.8	50.0	ug/L	7500	11088.5	72.4	80-120	0.0799	20	
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
Blank (B4E4447-BLK1)				**Analyzed:** 5/24/2024 1:05:00PM						
1,1,1-Trichloroethane	ND	10.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	10.0	ug/L							
1,1,2-Trichloroethane	ND	10.0	ug/L							
1,1-Dichloroethane	ND	10.0	ug/L							
1,1- Dichloroethene	ND	10.0	ug/L							
1,2-Dibromoethane	ND	10.0	ug/L							
1,2-Dichloroethane	ND	10.0	ug/L							
1,2-Dichloropropane	ND	10.0	ug/L							
2-Chloroethyl vinyl ether	ND	10.0	ug/L							

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
Blank (B4E4447-BLK1)				**Analyzed:** 5/24/2024 1:05:00PM						
Acrolein	ND	10.0	ug/L							
Acrylonitrile	ND	50.0	ug/L							
Benzene	ND	10.0	ug/L							
Bromodichloromethane	ND	10.0	ug/L							
Bromoform	ND	10.0	ug/L							
Carbon Tetrachloride	ND	2.00	ug/L							
Chlorobenzene	ND	10.0	ug/L							
Chloroethane	ND	50.0	ug/L							
Chloroform	ND	10.0	ug/L							
Dibromochloromethane (Chlorodibromomethane)	ND	10.0	ug/L							
Cis-1,3-Dichloropropene	ND	10.0	ug/L							
Ethylbenzene	ND	10.0	ug/L							
Methyl Bromide	ND	50.0	ug/L							
Methyl Chloride	ND	50.0	ug/L							
Methyl Ethyl Ketone	ND	50.0	ug/L							
Toluene	ND	10.0	ug/L							
trans-1,2-Dichloroethene	ND	10.0	ug/L							
Trans-1,3-Dichloropropene	ND	10.0	ug/L							
Trichloroethene	ND	10.0	ug/L							
Total Trihalomethanes	ND	10.0	ug/L							
Cis-1,2-Dichloroethene	ND	10.0	ug/L							
Vinyl Chloride	ND	10.0	ug/L							
1,3-Dichloropropene	ND	10.0	ug/L							
Methylene Chloride (Dichloromethane)	ND	10.0	ug/L							
Tetrachloroethene (Tetrachloroethylene)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*19.4*		ug/L	*20.0*		*96.9*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*17.9*		ug/L	*20.0*		*89.7*	*70-130*			
Surrogate: Dibromofluoromethane	*19.0*		ug/L	*20.0*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*18.7*		ug/L	*20.0*		*93.6*	*70-130*			
LCS (B4E4447-BS1)				**Analyzed:** 5/24/2024 10:11:00AM						
1,1,1-Trichloroethane	19.7	10.0	ug/L	20.0		98.6	70-130			
1,1,2,2-Tetrachloroethane	23.2	10.0	ug/L	20.0		116	60-140			
1,1,2-Trichloroethane	22.5	10.0	ug/L	20.0		112	70-130			
1,1-Dichloroethane	20.0	10.0	ug/L	20.0		99.9	70-130			

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
LCS (B4E4447-BS1)				**Analyzed:** 5/24/2024 10:11:00AM						
1,1- Dichloroethene	19.8	10.0	ug/L	20.0		99.1	50-150			
1,2-Dibromoethane	22.9	10.0	ug/L	20.0		114	70-130			
1,2-Dichloroethane	22.5	10.0	ug/L	20.0		113	70-130			
1,2-Dichloropropane	21.1	10.0	ug/L	20.0		105	35-165			
2-Chloroethyl vinyl ether	104	10.0	ug/L	100		104	0-225			
Acrolein	250	10.0	ug/L	200		125	60-140			
Acrylonitrile	28.4	50.0	ug/L	20.0		142	60-140			13
Benzene	20.5	10.0	ug/L	20.0		102	65-135			
Bromodichloromethane	21.6	10.0	ug/L	20.0		108	65-135			
Bromoform	23.2	10.0	ug/L	20.0		116	70-130			
Carbon Tetrachloride	20.1	2.00	ug/L	20.0		101	70-130			
Chlorobenzene	19.9	10.0	ug/L	20.0		99.7	65-135			
Chloroethane	22.0	50.0	ug/L	20.0		110	40-160			
Chloroform	20.6	10.0	ug/L	20.0		103	70-135			
Dibromochloromethane (Chlorodibromomethane)	22.1	10.0	ug/L	20.0		110	70-135			
Cis-1,3-Dichloropropene	22.0	10.0	ug/L	20.0		110	25-175			
Ethylbenzene	19.5	10.0	ug/L	20.0		97.7	60-140			
Methyl Bromide	18.2	50.0	ug/L	20.0		90.8	70-130			
Methyl Chloride	20.3	50.0	ug/L	20.0		101	0-221			
Methyl Ethyl Ketone	128	50.0	ug/L	100		128	70-130			
Toluene	19.6	10.0	ug/L	20.0		98.2	70-130			
trans-1,2-Dichloroethene	20.0	10.0	ug/L	20.0		100	70-130			
Trans-1,3-Dichloropropene	22.5	10.0	ug/L	20.0		113	50-150			
Trichloroethene	19.7	10.0	ug/L	20.0		98.4	65-135			
Cis-1,2-Dichloroethene	20.9	10.0	ug/L	20.0		104	63-137			
Vinyl Chloride	19.7	10.0	ug/L	20.0		98.7	50-150			
Methylene Chloride (Dichloromethane)	20.9	10.0	ug/L	20.0		104	60-140			
Tetrachloroethene (Tetrachloroethylene)	19.2	10.0	ug/L	20.0		95.8	70-130			
Acetone	123	10.0	ug/L	100		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		ug/L	*20.0*		*121*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*21.2*		ug/L	*20.0*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*21.5*		ug/L	*20.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*20.4*		ug/L	*20.0*		*102*	*70-130*			
Matrix Spike (B4E4447-MS1)		**Source: C4E3456-02**		**Analyzed:** 5/24/2024 1:58:00PM						
1,1,1-Trichloroethane	23.3	10.0	ug/L	20.0	ND	117	52-162			

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NELAP ACCREDITED TNI LABORATORY

NorthAmpton
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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
Matrix Spike (B4E4447-MS1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 1:58:00PM						
1,1,2,2-Tetrachloroethane	18.3	10.0	ug/L	20.0	ND	91.4	46-157			
1,1,2-Trichloroethane	19.8	10.0	ug/L	20.0	ND	99.0	52-150			
1,1-Dichloroethane	21.9	10.0	ug/L	20.0	ND	110	59-155			
1,1- Dichloroethene	19.3	10.0	ug/L	20.0	ND	96.4	0-234			
1,2-Dibromoethane	18.7	10.0	ug/L	20.0	ND	93.7	70-130			
1,2-Dichloroethane	20.7	10.0	ug/L	20.0	ND	104	49-155			
1,2-Dichloropropane	21.0	10.0	ug/L	20.0	ND	105	0-210			
2-Chloroethyl vinyl ether	113	10.0	ug/L	100	ND	113	0-305			
Acrolein	119	10.0	ug/L	200	ND	59.3	40-160			
Acrylonitrile	15.3	50.0	ug/L	20.0	ND	76.3	40-160			13
Benzene	21.9	10.0	ug/L	20.0	ND	110	37-151			
Bromodichloromethane	23.2	10.0	ug/L	20.0	1.20	110	35-155			
Bromoform	19.3	10.0	ug/L	20.0	ND	96.3	45-169			
Carbon Tetrachloride	23.3	2.00	ug/L	20.0	ND	116	70-140			
Chlorobenzene	21.6	10.0	ug/L	20.0	ND	108	37-160			
Chloroethane	42.3	50.0	ug/L	20.0	ND	211	14-230			
Chloroform	30.0	10.0	ug/L	20.0	6.31	119	51-138			
Dibromochloromethane (Chlorodibromomethane)	20.4	10.0	ug/L	20.0	ND	102	53-149			
Cis-1,3-Dichloropropene	20.0	10.0	ug/L	20.0	ND	99.8	0-227			
Ethylbenzene	20.6	10.0	ug/L	20.0	ND	103	37-162			
Methyl Bromide	18.8	50.0	ug/L	20.0	ND	93.9	70-130			
Methyl Chloride	30.1	50.0	ug/L	20.0	ND	151	0-221			
Methyl Ethyl Ketone	81.2	50.0	ug/L	100	ND	81.2	70-130			
Toluene	20.9	10.0	ug/L	20.0	ND	104	47-150			
trans-1,2-Dichloroethene	20.4	10.0	ug/L	20.0	ND	102	54-156			
Trans-1,3-Dichloropropene	19.8	10.0	ug/L	20.0	ND	98.8	17-183			
Trichloroethene	20.4	10.0	ug/L	20.0	ND	102	70-157			
Cis-1,2-Dichloroethene	20.3	10.0	ug/L	20.0	ND	102	63-137			
Vinyl Chloride	20.0	10.0	ug/L	20.0	ND	99.8	0-151			
Methylene Chloride (Dichloromethane)	20.7	10.0	ug/L	20.0	ND	103	0-221			
Tetrachloroethene (Tetrachloroethylene)	18.2	10.0	ug/L	20.0	ND	90.8	64-148			
Acetone	153	10.0	ug/L	100	61.5	91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*19.9*		ug/L	*20.0*		*99.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.5*		ug/L	*20.0*		*97.7*	*70-130*			
Surrogate: Dibromofluoromethane	*19.5*		ug/L	*20.0*		*97.7*	*70-130*			

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
Matrix Spike (B4E4447-MS1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 1:58:00PM						
Surrogate: Toluene-d8	*19.2*		ug/L	*20.0*		*95.9*	*70-130*			
Matrix Spike Dup (B4E4447-MSD1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 2:24:00PM						
1,1,1-Trichloroethane	21.4	10.0	ug/L	20.0	ND	107	52-162	8.43	36	
1,1,2,2-Tetrachloroethane	18.8	10.0	ug/L	20.0	ND	93.9	46-157	2.70	61	
1,1,2-Trichloroethane	19.1	10.0	ug/L	20.0	ND	95.7	52-150	3.42	45	
1,1-Dichloroethane	20.9	10.0	ug/L	20.0	ND	105	59-155	4.47	40	
1,1- Dichloroethene	18.6	10.0	ug/L	20.0	ND	92.8	0-234	3.75	32	
1,2-Dibromoethane	18.5	10.0	ug/L	20.0	ND	92.3	70-130	1.53	25	
1,2-Dichloroethane	19.9	10.0	ug/L	20.0	ND	99.5	49-155	3.97	49	
1,2-Dichloropropane	20.0	10.0	ug/L	20.0	ND	100	0-210	4.82	55	
2-Chloroethyl vinyl ether	102	10.0	ug/L	100	ND	102	0-305	9.41	71	
Acrolein	105	10.0	ug/L	200	ND	52.3	40-160	12.6	60	
Acrylonitrile	16.0	50.0	ug/L	20.0	ND	80.0	40-160	4.78	60	13
Benzene	20.7	10.0	ug/L	20.0	ND	104	37-151	5.51	61	
Bromodichloromethane	21.9	10.0	ug/L	20.0	1.20	104	35-155	5.44	56	
Bromoform	19.1	10.0	ug/L	20.0	ND	95.4	45-169	0.976	42	
Carbon Tetrachloride	21.7	2.00	ug/L	20.0	ND	109	70-140	6.84	41	
Chlorobenzene	20.4	10.0	ug/L	20.0	ND	102	37-160	5.32	53	
Chloroethane	39.5	50.0	ug/L	20.0	ND	197	14-230	6.90	78	
Chloroform	28.0	10.0	ug/L	20.0	6.31	109	51-138	6.85	54	
Dibromochloromethane (Chlorodibromomethane)	19.7	10.0	ug/L	20.0	ND	98.7	53-149	3.41	50	
Cis-1,3-Dichloropropene	19.2	10.0	ug/L	20.0	ND	96.0	0-227	3.90	58	
Ethylbenzene	19.6	10.0	ug/L	20.0	ND	97.8	37-162	5.33	63	
Methyl Bromide	18.5	50.0	ug/L	20.0	ND	92.3	70-130	1.72	25	
Methyl Chloride	29.1	50.0	ug/L	20.0	ND	146	0-221	3.41	25	
Methyl Ethyl Ketone	83.0	50.0	ug/L	100	ND	83.0	70-130	2.23	25	
Toluene	19.9	10.0	ug/L	20.0	ND	99.6	47-150	4.72	41	
trans-1,2-Dichloroethene	19.8	10.0	ug/L	20.0	ND	99.1	54-156	2.90	45	
Trans-1,3-Dichloropropene	19.4	10.0	ug/L	20.0	ND	96.9	17-183	1.94	86	
Trichloroethene	19.6	10.0	ug/L	20.0	ND	98.0	70-157	4.00	48	
Cis-1,2-Dichloroethene	19.6	10.0	ug/L	20.0	ND	98.1	63-137	3.55	25	
Vinyl Chloride	19.7	10.0	ug/L	20.0	ND	98.4	0-151	1.42	66	
Methylene Chloride (Dichloromethane)	19.9	10.0	ug/L	20.0	ND	99.5	0-221	3.71	28	
Tetrachloroethene (Tetrachloroethylene)	16.8	10.0	ug/L	20.0	ND	84.1	64-148	7.62	39	
Acetone	149	10.0	ug/L	100	61.5	87.9	70-130	2.62	25	

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4447 - EPA 5030C	**Prepared: 05/24/24 08:52**									
Matrix Spike Dup (B4E4447-MSD1)	**Source: C4E3456-02**			**Analyzed:** 5/24/2024 2:24:00PM						
Surrogate: 1,2-Dichloroethane-d4	*19.3*		ug/L	*20.0*		*96.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.0*		ug/L	*20.0*		*94.8*	*70-130*			
Surrogate: Dibromofluoromethane	*19.2*		ug/L	*20.0*		*96.1*	*70-130*			
Surrogate: Toluene-d8	*19.3*		ug/L	*20.0*		*96.5*	*70-130*			
Batch B4E4513 - No Prep	**Prepared: 05/28/24 14:19**									
Blank (B4E4513-BLK1)				**Analyzed:** 5/28/2024 2:19:00PM						
Ammonia as N	ND	0.1	mg/L							
LCS (B4E4513-BS1)				**Analyzed:** 5/28/2024 2:19:00PM						
Ammonia as N	3.83		mg/L	4.00		95.8	90-110			
Matrix Spike (B4E4513-MS1)	**Source: C4E5934-02**			**Analyzed:** 5/28/2024 2:19:00PM						
Ammonia as N	2.6	0.1	mg/L	2.50	0.07	101	80-120			
Matrix Spike Dup (B4E4513-MSD1)	**Source: C4E5934-02**			**Analyzed:** 5/28/2024 2:19:00PM						
Ammonia as N	2.7	0.1	mg/L	2.50	0.07	106	80-120	3.83	20	
Batch B4E4538 - No Prep	**Prepared: 05/24/24 17:30**									
Blank (B4E4538-BLK1)				**Analyzed:** 5/24/2024 5:30:00PM						
CBOD 5	1.32	2.0	mg/L							1
LCS (B4E4538-BS1)				**Analyzed:** 5/24/2024 5:30:00PM						
CBOD 5	166		mg/L	198		83.8	84.59-115.40			1, 13
Duplicate (B4E4538-DUP1)	**Source: C4E5934-02**			**Analyzed:** 5/24/2024 5:30:00PM						
CBOD 5	3.14	2.0	mg/L		3.39			7.66	30	1, 13
Batch B4E4545 - No Prep	**Prepared: 05/27/24 10:40**									
Blank (B4E4545-BLK1)				**Analyzed:** 6/3/2024 1:13:00PM						
TKN	ND	1.0	mg/L							
LCS (B4E4545-BS1)				**Analyzed:** 6/3/2024 1:13:00PM						
TKN	8.65		mg/L	10.0		86.5	90-110			13
Matrix Spike (B4E4545-MS1)	**Source: C4E6986-01**			**Analyzed:** 6/3/2024 1:13:00PM						
TKN	12.9	1.0	mg/L	10.0	3.18	97.1	80-120			13

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EPA 351.2 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4545 - No Prep	**Prepared: 05/27/24 10:40**									
Matrix Spike Dup (B4E4545-MSD1)	**Source: C4E6986-01**			**Analyzed:** 6/3/2024 1:13:00PM						
TKN	12.7	1.0	mg/L	10.0	3.18	95.4	80-120	1.37	20	13
Batch B4E4609 - No Prep	**Prepared: 05/28/24 10:52**									
Blank (B4E4609-BLK1)				**Analyzed:** 5/28/2024 10:52:00AM						
TSS	ND	1.0	mg/L							
Duplicate (B4E4609-DUP1)	**Source: C4E7113-01**			**Analyzed:** 5/28/2024 10:52:00AM						
TSS	86.0	1.0	mg/L		94.0			8.89	10	
Batch B4E4662 - EPA 200.8	**Prepared: 05/28/24 10:59**									
Blank (B4E4662-BLK1)				**Analyzed:** 5/29/2024 2:46:00PM						
Aluminum - Total	ND	2.50	ug/L							
Antimony - Total	ND	5.00	ug/L							
Arsenic, Total	ND	0.500	ug/L							
Barium, Total	ND	3.00	ug/L							
Beryllium, Total	ND	0.500	ug/L							
Cadmium, Total	ND	1.00	ug/L							
Chromium, Total	ND	3.00	ug/L							
Copper, Total	ND	2.00	ug/L							
Lead, Total	ND	0.500	ug/L							
Nickel, Total	2.11	2.00	ug/L							
Selenium, Total	ND	5.00	ug/L							
Silver, Total	ND	0.500	ug/L							
Thallium, Total	ND	0.500	ug/L							
Zinc, Total	ND	5.00	ug/L							
LCS (B4E4662-BS1)				**Analyzed:** 5/29/2024 2:50:00PM						
Aluminum - Total	97.4	2.50	ug/L	100		97.4	85-115			
Antimony - Total	106	5.00	ug/L	100		106	85-115			
Arsenic, Total	105	0.500	ug/L	100		105	85-115			
Barium, Total	103	3.00	ug/L	100		103	85-115			
Beryllium, Total	108	0.500	ug/L	100		108	85-115			
Cadmium, Total	105	1.00	ug/L	100		105	85-115			
Chromium, Total	105	3.00	ug/L	100		105	85-115			
Copper, Total	108	2.00	ug/L	100		108	85-115			
Lead, Total	102	0.500	ug/L	100		102	85-115			

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EPA 200.8 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4662 - EPA 200.8	**Prepared: 05/28/24 10:59**									
LCS (B4E4662-BS1)				**Analyzed:** 5/29/2024 2:50:00PM						
Nickel, Total	106	2.00	ug/L	100		106	85-115			
Selenium, Total	105	5.00	ug/L	100		105	85-115			
Silver, Total	101	0.500	ug/L	100		101	85-115			
Thallium, Total	101	0.500	ug/L	100		101	85-115			
Zinc, Total	104	5.00	ug/L	100		104	85-115			
Matrix Spike (B4E4662-MS1)	**Source: C4E3456-01**			**Analyzed:** 5/29/2024 3:02:00PM						
Aluminum - Total	192	2.50	ug/L	100	37.3	155	70-130			23
Antimony - Total	106	5.00	ug/L	100	ND	106	70-130			
Arsenic, Total	104	0.500	ug/L	100	1.09	103	70-130			
Barium, Total	155	3.00	ug/L	100	54.2	101	70-130			
Beryllium, Total	101	0.500	ug/L	100	ND	101	70-130			
Cadmium, Total	99.9	1.00	ug/L	100	ND	99.9	70-130			
Chromium, Total	99.5	3.00	ug/L	100	0.499	99.0	70-130			
Copper, Total	103	2.00	ug/L	100	4.02	98.9	70-130			
Lead, Total	103	0.500	ug/L	100	0.179	103	70-130			
Nickel, Total	100	2.00	ug/L	100	1.47	99.0	70-130			
Selenium, Total	105	5.00	ug/L	100	ND	105	70-130			
Silver, Total	92.6	0.500	ug/L	100	ND	92.6	70-130			
Thallium, Total	101	0.500	ug/L	100	ND	101	70-130			
Zinc, Total	138	5.00	ug/L	100	41.8	95.9	70-130			
Matrix Spike Dup (B4E4662-MSD1)	**Source: C4E3456-01**			**Analyzed:** 5/29/2024 3:06:00PM						
Aluminum - Total	173	2.50	ug/L	100	37.3	136	70-130	10.3	20	
Antimony - Total	104	5.00	ug/L	100	ND	104	70-130	1.16	20	
Arsenic, Total	104	0.500	ug/L	100	1.09	103	70-130	0.491	20	
Barium, Total	151	3.00	ug/L	100	54.2	97.0	70-130	2.28	20	
Beryllium, Total	99.6	0.500	ug/L	100	ND	99.6	70-130	1.34	20	
Cadmium, Total	98.0	1.00	ug/L	100	ND	98.0	70-130	1.89	20	
Chromium, Total	97.9	3.00	ug/L	100	0.499	97.4	70-130	1.62	20	
Copper, Total	102	2.00	ug/L	100	4.02	98.3	70-130	0.575	20	
Lead, Total	102	0.500	ug/L	100	0.179	101	70-130	1.13	20	
Nickel, Total	99.0	2.00	ug/L	100	1.47	97.5	70-130	1.48	20	
Selenium, Total	103	5.00	ug/L	100	ND	103	70-130	1.87	20	
Silver, Total	90.9	0.500	ug/L	100	ND	90.9	70-130	1.90	20	
Thallium, Total	100	0.500	ug/L	100	ND	100	70-130	0.986	20	
Zinc, Total	138	5.00	ug/L	100	41.8	96.6	70-130	0.506	20	

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EPA 200.7 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E4733 - EPA 200.7	**Prepared: 05/28/24 13:29**									
Blank (B4E4733-BLK1)				**Analyzed:** 5/30/2024 11:45:25AM						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B4E4733-BS1)				**Analyzed:** 5/30/2024 11:47:01AM						
Total Phosphorus	2.62	0.0600	mg/L	2.52		104	85-115			
Matrix Spike (B4E4733-MS1)	**Source: C4E3456-02**			**Analyzed:** 5/30/2024 11:51:49AM						
Total Phosphorus	6.85	0.0600	mg/L	2.52	4.23	104	70-130			
Matrix Spike Dup (B4E4733-MSD1)	**Source: C4E3456-02**			**Analyzed:** 5/30/2024 11:53:25AM						
Total Phosphorus	7.06	0.0600	mg/L	2.52	4.23	112	70-130	3.10	20	
Batch B4E5153 - No Prep	**Prepared: 05/30/24 11:58**									
Blank (B4E5153-BLK1)				**Analyzed:** 5/30/2024 11:58:00AM						
TDS	ND	10.0	mg/L							
LCS (B4E5153-BS1)				**Analyzed:** 5/30/2024 11:58:00AM						
TDS	330		mg/L	300		110	80-120			
Duplicate (B4E5153-DUP1)	**Source: C4E0759-01**			**Analyzed:** 5/30/2024 11:58:00AM						
TDS	290	10.0	mg/L		270			7.14	10	
Batch B4E5171 - No Prep	**Prepared: 05/30/24 13:23**									
Blank (B4E5171-BLK1)				**Analyzed:** 5/30/2024 1:23:00PM						
Conductivity	ND	10	µmhos/cm @25C							
LCS (B4E5171-BS1)				**Analyzed:** 5/30/2024 1:23:00PM						
Conductivity	1000		µmhos/cm @25C	1000		100	80-120			
Duplicate (B4E5171-DUP1)	**Source: C4E0759-01**			**Analyzed:** 5/30/2024 1:23:00PM						
Conductivity	332	10	µmhos/cm @25C		328			1.21	20	
Batch B4E5183 - No Prep	**Prepared: 05/30/24 11:08**									
Blank (B4E5183-BLK1)				**Analyzed:** 5/30/2024 11:08:00AM						
Chromium, (VI)	ND	3	ug/L							
LCS (B4E5183-BS1)				**Analyzed:** 5/30/2024 11:08:00AM						

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SM 3500 Cr B - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E5183 - No Prep	**Prepared: 05/30/24 11:08**									
LCS (B4E5183-BS1)				**Analyzed:** 5/30/2024 11:08:00AM						
Chromium, (VI)	21.15		ug/L	20.0		106	95-105			
Matrix Spike (B4E5183-MS1)	**Source: C4E5934-01**			**Analyzed:** 5/30/2024 11:08:00AM						
Chromium, (VI)	37.827	3	ug/L	44.5	ND	85.0	80-120			
Matrix Spike Dup (B4E5183-MSD1)	**Source: C4E5934-01**			**Analyzed:** 5/30/2024 11:08:00AM						
Chromium, (VI)	36.437	3	ug/L	44.5	ND	81.9	80-120	3.74	20	
Batch B4E5219 - No Prep	**Prepared: 05/30/24 13:37**									
Blank (B4E5219-BLK1)				**Analyzed:** 5/30/2024 1:37:00PM						
Alkalinity	ND	20.0	mg CaCO3/L							
LCS (B4E5219-BS1)				**Analyzed:** 5/30/2024 1:37:00PM						
Alkalinity	50.0		mg CaCO3/L	50.0		100	80-120			
Duplicate (B4E5219-DUP1)	**Source: C4E0759-01**			**Analyzed:** 5/30/2024 1:37:00PM						
Alkalinity	62.0	20.0	mg CaCO3/L		60.0			3.28	20	
Batch B4F0195 - No Prep	**Prepared: 06/04/24 08:18**									
Blank (B4F0195-BLK1)				**Analyzed:** 6/4/2024 8:18:00AM						
Oil Grease, HEM	ND	5.0	mg/L							
LCS (B4F0195-BS1)				**Analyzed:** 6/4/2024 8:18:00AM						
Oil Grease, HEM	40.2	5.0	mg/L	40.0		100	78-114			
Matrix Spike (B4F0195-MS1)	**Source: C4E8412-02**			**Analyzed:** 6/4/2024 8:18:00AM						
Oil Grease, HEM	40.9	5.1	mg/L	40.0	2.96	94.9	78-114			
Matrix Spike Dup (B4F0195-MSD1)	**Source: C4E8412-02**			**Analyzed:** 6/4/2024 8:18:00AM						
Oil Grease, HEM	40.8	5.1	mg/L	40.0	2.96	94.6	78-114	0.250	18	
Batch B4F2244 - No Prep	**Prepared: 06/13/24 08:00**									
Blank (B4F2244-BLK1)				**Analyzed:** 6/13/2024 8:00:00AM						
Phenol, low level	ND	10.0	ppb							
LCS (B4F2244-BS1)				**Analyzed:** 6/13/2024 8:00:00AM						
Phenol, low level	51.0	10.0	ppb				80-120			

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

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Spring TX, 77383

EPA 420.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F2244 - No Prep	**Prepared: 06/13/24 08:00**									
LCS Dup (B4F2244-BSD1)				**Analyzed:** 6/13/2024 8:00:00AM						
Phenol, low level	52.7	10.0	ppb				80-120	3.28	20	
Matrix Spike (B4F2244-MS1)	**Source: C4E3456-02**			**Analyzed:** 6/13/2024 8:00:00AM						
Phenol, low level	58.7	10.0	ppb	40.0	11.4	118	80-120			
Matrix Spike Dup (B4F2244-MSD1)	**Source: C4E3456-02**			**Analyzed:** 6/13/2024 8:00:00AM						
Phenol, low level	68.0	10.0	ppb	40.0	11.4	141	80-120	14.6	20	

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Notes and Definitions

25	Residue not in the method range of 2.5-200 mg.
23	Spike recovery outside of acceptance limits due to matrix interference.
13	LCS associated with sample batch outside of acceptance limits.
1	Dilution water blank > 0.20 mg/L DO uptake.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Printed 06/18/2024
16:37

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2302476	*NorthAmpton Long Permit EFF C*	05/24/2024	00:00:00	05/29/2024

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 NaOH
Bottle 11 Glass /clean metals w/HCl
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1121336) Volume: 10.00000 mL <== Derived from 10 (5 ml)
Bottle 13 Prepared Bottle: Mercury Preparation for Metals (Batch 1121478) Volume: 50.00000 mL <== Derived from 11 (47 ml)
Bottle 14 Prepared Bottle: 2 mL Autosampler Vial (Batch 1121528) Volume: 1.00000 mL <== Derived from 02 (984 ml)
Bottle 15 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1121530) Volume: 1.00000 mL <== Derived from 01 (979 ml)
Bottle 16 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1121316) Volume: 1.00000 mL <== Derived from 01 (979 ml)
Bottle 17 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1121317) Volume: 1.00000 mL <== Derived from 01 (979 ml)
Bottle 18 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1121318) Volume: 1.00000 mL <== Derived from 01 (979 ml)
Bottle 19 Prepared Bottle: 2 mL Autosampler Vial (Batch 1121542) Volume: 10.00000 mL <== Derived from 03 (954 ml)
Bottle 20 Prepared Bottle: 2 mL Autosampler Vial (Batch 1122298) Volume: 1.00000 mL <== Derived from 06 (996 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	16	1121316	05/29/2024	1122485	06/05/2024
EPA 608.3	18	1121318	05/29/2024	1122623	06/05/2024
EPA 615	19	1121542	05/30/2024	1121902	06/01/2024
EPA 632	15	1121530	05/29/2024	1123857	06/07/2024
EPA 625.1	14	1121528	05/29/2024	1122845	06/06/2024
EPA 614	16	1121316	05/29/2024	1123552	06/05/2024
ASTM D7065-11	20	1122298	06/05/2024	1122871	06/06/2024
EPA 245.7 2	13	1121478	05/30/2024	1121588	05/30/2024
SM 4500-CN^- E-2016	12	1121336	05/29/2024	1121520	05/30/2024
EPA 622	16	1121316	05/29/2024	1123550	06/05/2024

Sample	Sample ID	Taken	Time	Received
2302493	*LL Hg Field BlankNorthAmpton*	05/24/2024	00:00:00	05/29/2024

Bottle 01 Glass /clean metals w/HCl
Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1121471) Volume: 50.00000 mL <== Derived from 01 (47 ml)

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Sample	Sample ID	Taken	Time	Received
2302493	*LL Hg Field BlankNorthAmpton*	05/24/2024	00:00:00	05/29/2024

Bottle 01 Glass /clean metals w/HCl
Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1121471) Volume: 50.00000 mL <== Derived from 01 (47 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 245.7 2	02	1121471	05/30/2024	1121588	05/30/2024

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RESULTS

Sample Results

2302476 NorthAmpton Long Permit EFF C

Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

Prepared: 06/13/2024 17:25:00 Analyzed 06/13/2024 17:25:00 WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Check Limits**	**Completed**					

ASTM D7065-11 Prepared: 1122298 06/05/2024 14:00:00 Analyzed 1122871 06/06/2024 17:02:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nonylphenol**	**<30.1**	**ug/L**	30.1		**25154-52-3**	20

EPA 245.7 2 Prepared: 1121478 05/30/2024 10:20:00 Analyzed 1121588 05/30/2024 15:14:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**0.00474**	**ug/L**	0.000005	J	**7439-97-6**	13

EPA 608.3 Prepared: 1121316 05/29/2024 09:00:00 Analyzed 1122485 06/05/2024 16:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**4,4-DDD**	**<0.0102**	**ug/L**	0.0102		**72-54-8**	16
NELAC	**4,4-DDE**	**<0.0102**	**ug/L**	0.0102		**72-55-9**	16
NELAC	**4,4-DDT**	**<0.0102**	**ug/L**	0.0102		**50-29-3**	16
NELAC	**Aldrin**	**<0.010**	**ug/L**	0.010	M	**309-00-2**	16
NELAC	**Alpha-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-84-6**	16
NELAC	**alpha-Chlordane**	**<0.0102**	**ug/L**	0.0102		**5103-71-9**	16
NELAC	**Beta-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-85-7**	16
NELAC	**Delta-BHC(hexachlorocyclohexane)**	**<0.0102**	**ug/L**	0.0102		**319-86-8**	16
NELAC	**Dieldrin**	**<0.0102**	**ug/L**	0.0102		**60-57-1**	16
NELAC	**Endosulfan I (alpha)**	**<0.010**	**ug/L**	0.010		**959-98-8**	16
NELAC	**Endosulfan II (beta)**	**<0.0102**	**ug/L**	0.0102		**33213-65-9**	16
NELAC	**Endosulfan sulfate**	**<0.0102**	**ug/L**	0.0102		**1031-07-8**	16
NELAC	**Endrin**	**<0.0102**	**ug/L**	0.0102		**72-20-8**	16
NELAC	**Endrin aldehyde**	**<0.0102**	**ug/L**	0.0102	S	**7421-93-4**	16

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2302476 NorthAmpton Long Permit EFF C

Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

EPA 608.3 Prepared: 1121316 05/29/2024 09:00:00 Analyzed 1122485 06/05/2024 16:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Gamma-BHC(Lindane)	<0.0102	ug/L	0.0102		58-89-9	16
NELAC	gamma-Chlordane	<0.0102	ug/L	0.0102		5103-74-2	16
NELAC	Heptachlor	<0.010	ug/L	0.010	S	76-44-8	16
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	16
z	Kelthane (Dicofol)	<0.102	ug/L	0.102	XS	115-32-2	16
NELAC	Methoxychlor	<0.0102	ug/L	0.0102		72-43-5	16
z	Mirex	<0.0153	ug/L	0.0153		2385-85-5	16
NELAC	Toxaphene	<0.204	ug/L	0.204		8001-35-2	16

EPA 608.3 Prepared: 1121318 05/29/2024 09:00:00 Analyzed 1122623 06/05/2024 16:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.206	ug/L	0.206	X	12674-11-2	18
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	18
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	18
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	18
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	18
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	18
NELAC	PCB-1260	<0.200	ug/L	0.200		11096-82-5	18
NELAC	PCB-1262	<0.204	ug/L	0.204		37324-23-5	18
NELAC	PCB-1268	<0.204	ug/L	0.204		11100-14-4	18

EPA 614 Prepared: 1121316 05/29/2024 09:00:00 Analyzed 1123552 06/05/2024 16:54:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0511	ug/L	0.0511		86-50-0	16
NELAC	Demeton	<0.0511	ug/L	0.0511		8065-48-3	16
NELAC	Diazinon	<0.0511	ug/L	0.0511		333-41-5	16
NELAC	Malathion	0.0441	ug/L	0.0511	J	121-75-5	16
NELAC	Parathion, ethyl	<0.0511	ug/L	0.0511		56-38-2	16
NELAC	Parathion, methyl	<0.050	ug/L	0.050		298-00-0	16

EPA 615 Prepared: 1121542 05/30/2024 13:45:00 Analyzed 1121902 06/01/2024 01:09:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.524	ug/L	0.524		94-75-7	19

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Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

EPA 615 Prepared: 1121542 05/30/2024 13:45:00 Analyzed 1121902 06/01/2024 01:09:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300		93-72-1	19

EPA 622 Prepared: 1121316 05/29/2024 09:00:00 Analyzed 1123550 06/05/2024 16:54:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	16

EPA 625.1 Prepared: 1121528 05/29/2024 14:30:00 Analyzed 1122845 06/06/2024 22:59:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.02	ug/L	1.02		95-94-3	14
NELAC	1,2,4-Trichlorobenzene	<1.02	ug/L	1.02		120-82-1	14
NELAC	1,2-Dichlorobenzene	<1.02	ug/L	1.02		95-50-1	14
NELAC	1,2-DPH (as azobenzene)	<1.02	ug/L	1.02		122-66-7	14
NELAC	1,3-Dichlorobenzene	<1.02	ug/L	1.02		541-73-1	14
NELAC	1,4-Dichlorobenzene	<1.02	ug/L	1.02		106-46-7	14
NELAC	2,4,5-Trichlorophenol	<1.02	ug/L	1.02		95-95-4	14
NELAC	2,4,6-Trichlorophenol	<1.02	ug/L	1.02		88-06-2	14
NELAC	2,4-Dichlorophenol	<1.02	ug/L	1.02		120-83-2	14
NELAC	2,4-Dimethylphenol	<2.44	ug/L	2.44	S	105-67-9	14
NELAC	2,4-Dinitrophenol	<9.15	ug/L	9.15		51-28-5	14
NELAC	2,4-Dinitrotoluene	<3.56	ug/L	3.56		121-14-2	14
NELAC	2,6-Dinitrotoluene	<1.02	ug/L	1.02		606-20-2	14
NELAC	2-Chloronaphthalene	<1.02	ug/L	1.02		91-58-7	14
NELAC	2-Chlorophenol	<1.02	ug/L	1.02		95-57-8	14
NELAC	2-Methylphenol (o-Cresol)	<5.28	ug/L	5.28		95-48-7	14
NELAC	2-Nitrophenol	<1.02	ug/L	1.02		88-75-5	14
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.30	ug/L	6.30		MEPH34	14
NELAC	3,3'-Dichlorobenzidine	<5.00	ug/L	5.00		91-94-1	14
NELAC	4,6-Dinitro-2-methylphenol	<8.13	ug/L	8.13		534-52-1	14
NELAC	4-Bromophenyl phenyl ether	<1.02	ug/L	1.02		101-55-3	14
NELAC	4-Chlorophenyl phenyl ethe	<1.02	ug/L	1.02		7005-72-3	14
NELAC	4-Nitrophenol	<1.02	ug/L	1.02		100-02-7	14
NELAC	Acenaphthene	<1.02	ug/L	1.02		83-32-9	14
NELAC	Acenaphthylene	<1.02	ug/L	1.02		208-96-8	14

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2302476 NorthAmpton Long Permit EFF C

Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

EPA 625.1 Prepared: 1121528 05/29/2024 14:30:00 Analyzed 1122845 06/06/2024 22:59:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Aniline	<1.02	ug/L	1.02		62-53-3	14
NELAC	Anthracene	<1.02	ug/L	1.02		120-12-7	14
NELAC	Benzidine	<20.3	ug/L	20.3	D	92-87-5	14
NELAC	Benzo(a)anthracene	<1.02	ug/L	1.02		56-55-3	14
NELAC	Benzo(a)pyrene	<1.02	ug/L	1.02		50-32-8	14
NELAC	Benzo(b)fluoranthene	<1.02	ug/L	1.02		205-99-2	14
NELAC	Benzo(ghi)perylene	<1.02	ug/L	1.02		191-24-2	14
NELAC	Benzo(k)fluoranthene	<1.02	ug/L	1.02		207-08-9	14
NELAC	Benzyl Butyl phthalate	<7.62	ug/L	7.62		85-68-7	14
NELAC	Bis(2-chloroethoxy)methane	<1.02	ug/L	1.02		111-91-1	14
NELAC	Bis(2-chloroethyl)ether	<1.02	ug/L	1.02		111-44-4	14
NELAC	Bis(2-chloroisopropyl)ether	<1.02	ug/L	1.02		108-60-1	14
NELAC	Bis(2-ethylhexyl)phthalate	<7.62	ug/L	7.62		117-81-7	14
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.02	ug/L	1.02		218-01-9	14
NELAC	Dibenz(a,h)anthracene	<1.02	ug/L	1.02		53-70-3	14
NELAC	Diethyl phthalate	<5.79	ug/L	5.79		84-66-2	14
NELAC	Dimethyl phthalate	<4.88	ug/L	4.88		131-11-3	14
NELAC	Di-n-butylphthalate	<7.62	ug/L	7.62		84-74-2	14
NELAC	Di-n-octylphthalate	<1.02	ug/L	1.02		117-84-0	14
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.02	ug/L	1.02		206-44-0	14
NELAC	Fluorene	<1.02	ug/L	1.02		86-73-7	14
NELAC	Hexachlorobenzene	<1.02	ug/L	1.02		118-74-1	14
NELAC	Hexachlorobutadiene	<1.02	ug/L	1.02		87-68-3	14
NELAC	Hexachlorocyclopentadiene	<9.15	ug/L	9.15		77-47-4	14
NELAC	Hexachloroethane	<1.02	ug/L	1.02		67-72-1	14
NELAC	Indeno(1,2,3-cd)pyrene	<1.02	ug/L	1.02		193-39-5	14
NELAC	Isophorone	<1.02	ug/L	1.02		78-59-1	14
NELAC	Naphthalene	<1.02	ug/L	1.02		91-20-3	14
NELAC	Nitrobenzene	<1.02	ug/L	1.02		98-95-3	14
NELAC	n-Nitrosodiethylamine	<1.02	ug/L	1.02		55-18-5	14
NELAC	N-Nitrosodimethylamine	<7.11	ug/L	7.11		62-75-9	14
NELAC	n-Nitroso-di-n-butylamine	<1.02	ug/L	1.02		924-16-3	14
NELAC	N-Nitrosodi-n-propylamine	<1.02	ug/L	1.02		621-64-7	14
NELAC	N-Nitrosodiphenylamine (as DPA	<1.02	ug/L	1.02		86-30-6	14
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.44	ug/L	2.44		59-50-7	14
NELAC	Pentachlorobenzene	<1.02	ug/L	1.02	X	608-93-5	14

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EEL3-G

Project 1104764

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Printed: 06/18/2024

2302476 NorthAmpton Long Permit EFF C

Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

EPA 625.1 — Prepared: 1121528 05/29/2024 14:30:00 — Analyzed 1122845 06/06/2024 22:59:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Pentachlorophenol**	**<1.02**	**ug/L**	1.02		**87-86-5**	14
NELAC	**Phenanthrene**	**<1.02**	**ug/L**	1.02		**85-01-8**	14
NELAC	**Phenol**	**<1.52**	**ug/L**	1.52		**108-95-2**	14
NELAC	**Pyrene**	**<1.02**	**ug/L**	1.02		**129-00-0**	14
NELAC	**Pyridine**	**<5.49**	**ug/L**	5.49	X	**110-86-1**	14

EPA 625.1 — Prepared: 1121528 05/29/2024 14:30:00 — Calculated 1122845 06/10/2024 14:19:04 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cresols Total**	**<6.30**	**ug/L**	6.30		**1319-77-3, etc.**	14

EPA 632 — Prepared: 1121530 05/29/2024 14:25:00 — Analyzed 1123857 06/07/2024 23:00:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.55**	**ug/L**	2.55		**63-25-2**	15
z	**Diuron**	**<0.046**	**ug/L**	0.046		**330-54-1**	15

SM 4500-CN⁻ E-2016 — Prepared: 1121336 05/29/2024 15:32:03 — Analyzed 1121520 05/30/2024 09:20:00 MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**3.40**	**ug/L**	5.00	J		12

2302493 LL Hg Field BlankNorthAmpton

Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | Taken: 05/24/2024 00:00:00 | PO: 052824B

Prepared: 05/29/2024 14:36:09 — Calculated 05/29/2024 14:36:09 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**LL Mercury Field Blank Prep**	**Verified**				**7439-97-6**	

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2302493 **LL Hg Field BlankNorthAmpton** Received: 05/29/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 052824B
Taken: 05/24/2024 00:00:00

EPA 245.7 2	*Prepared:*	*1121471*	*05/30/2024*	*10:30:00*	*Analyzed*	*1121588*	*05/30/2024*	*13:24:00*	*MP1*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**<0.00128**	**ug/L**	0.00128		**7439-97-6**	02

Sample Preparation

2302476 **NorthAmpton Long Permit EFF C** Received: 05/29/2024

052824B

05/24/2024

	Prepared:		*05/29/2024*	*14:36:07*	*Calculated*		*05/29/2024*	*14:36:07*	*CAL*

z	**Environmental Fee (per Project)**	**Verified**	

ASTM D7065-11	*Prepared:*	*1122298*	*06/05/2024*	*14:00:00*	*Analyzed*	*1122871*	*06/06/2024*	*17:02:00*	*DWL*

z	**Nonyl Phenol Expansion**	**Entered**		20

EPA 245.7 2	*Prepared:*	*1121478*	*05/30/2024*	*10:20:00*	*Analyzed*	*1121478*	*05/30/2024*	*10:20:00*	*MP1*

NELAC	**Low Level Mercury Liquid Metals**	**50/47**	**ml**	11

EPA 608.3	*Prepared:*	*1121316*	*05/29/2024*	*09:00:00*	*Analyzed*	*1121316*	*05/29/2024*	*09:00:00*	*CRS*

	Liquid-Liquid Extr. W/Hex Ex	**1/979**	**ml**	01

EPA 608.3	*Prepared:*	*1121316*	*05/29/2024*	*09:00:00*	*Analyzed*	*1122485*	*06/05/2024*	*16:37:00*	*KAP*

NELAC	**Pesticides Method 608.3 full lis**	**Entered**		16

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2302476 **NorthAmpton Long Permit EFF C**

Received: 05/29/2024

052824B

05/24/2024

EPA 608.3		*Prepared:*	*1121317*	*05/29/2024*	*09:00:00*	*Analyzed*	*1121317*	*05/29/2024*	*09:00:00*	*CRS*
	Solvent Extraction	**1/979**	**ml**							01
EPA 608.3		*Prepared:*	*1121318*	*05/29/2024*	*09:00:00*	*Analyzed*	*1121318*	*05/29/2024*	*09:00:00*	*CRS*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/979**	**ml**							01
EPA 608.3		*Prepared:*	*1121318*	*05/29/2024*	*09:00:00*	*Analyzed*	*1122623*	*06/05/2024*	*16:37:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								18
EPA 614		*Prepared:*	*1121316*	*05/29/2024*	*09:00:00*	*Analyzed*	*1123552*	*06/05/2024*	*16:54:00*	*KAP*
z	**Permit Organophos. Pesticides**	**Entered**								16
EPA 615		*Prepared:*	*1121542*	*05/30/2024*	*13:45:00*	*Analyzed*	*1121542*	*05/30/2024*	*13:45:00*	*CRS*
NELAC	**Esterification of Sample**	**10/954**	**ml**							03
EPA 615		*Prepared:*	*1121542*	*05/30/2024*	*13:45:00*	*Analyzed*	*1121902*	*06/01/2024*	*01:09:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								19
EPA 622		*Prepared:*	*1121316*	*05/29/2024*	*09:00:00*	*Analyzed*	*1123550*	*06/05/2024*	*16:54:00*	*KAP*
NELAC	**For use with EXP !CPP only**	**Entered**								16
EPA 625.1		*Prepared:*	*1121528*	*05/29/2024*	*14:30:00*	*Analyzed*	*1121528*	*05/29/2024*	*14:30:00*	*CRS*
	Liquid-Liquid Extraction, BNA	**1/984**	**ml**							02

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2302476 NorthAmpton Long Permit EFF C Received: 05/29/2024

052824B

05/24/2024

EPA 625.1	*Prepared:*	*1121528*	*05/29/2024*	*14:30:00*	*Analyzed*	*1122845*	*06/06/2024*	*22:59:00*	*DWL*	
NELAC **Table D-1/ D-2 Semivolatiles Exp**	**Entered**									14
EPA 625.1	*Prepared:*	*1122298*	*06/05/2024*	*14:00:00*	*Analyzed*	*1122298*	*06/05/2024*	*14:00:00*	*MCC*	
Nonylphenol Liq-Liq Extract	**1/996**	**ml**								06
EPA 632	*Prepared:*	*1121530*	*05/29/2024*	*14:25:00*	*Analyzed*	*1121530*	*05/29/2024*	*14:25:00*	*CRS*	
Liquid-Liquid Extr. W/Hex Ex	**1/979**	**ml**								01
EPA 632	*Prepared:*	*1121530*	*05/29/2024*	*14:25:00*	*Analyzed*	*1123857*	*06/07/2024*	*23:00:00*	*BRU*	
NELAC **Carbaryl/Diuron**	**Entered**									15
SM 4500-CN⁻ C-2016	*Prepared:*	*1121336*	*05/29/2024*	*15:32:03*	*Analyzed*	*1121336*	*05/29/2024*	*15:32:03*	*SRJ*	
NELAC **Cyanide Distillation**	**10/5**	**ml**								10

2302493 LL Hg Field BlankNorthAmpton Received: 05/29/2024

052824B

05/24/2024

EPA 245.7 2	*Prepared:*	*1121471*	*05/30/2024*	*10:30:00*	*Analyzed*	*1121471*	*05/30/2024*	*10:30:00*	*MPI*	
NELAC **Low Level Mercury Liquid Metals**	**50/47**	**ml**								01

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Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
M - High reporting level resulting from matrix interference.
X - Standard reads higher than desired.
S - Standard reads lower 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

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Printed 06/18/2024

Analytical Set 1121520

SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1121336	ND	0.00238	0.005	mg/L	126383998

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.519	0.500	mg/L	104	90.0 - 110	126383984
Cyanide, total	0.520	0.500	mg/L	104	90.0 - 110	126383994
Cyanide, total	0.518	0.500	mg/L	104	90.0 - 110	126384005
Cyanide, total	0.521	0.500	mg/L	104	90.0 - 110	126384016
Cyanide, total	0.527	0.500	mg/L	105	90.0 - 110	126384025
Cyanide, total	0.529	0.500	mg/L	106	90.0 - 110	126384026
Cyanide, total	0.530	0.500	mg/L	106	90.0 - 110	126384027

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Cyanide, total	2302285	0.0042	0.0058	mg/L	32.0	*	20.0
Cyanide, total	2302464	0.0042	0.0046	mg/L	9.09		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.197	0.200	mg/L	98.5	90.0 - 110	126383983

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1121336	0.376	0.377	0.400	90.0 - 110	94.0	94.2	mg/L	0.266	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Cyanide, total	2302285	0.348	0.0058	0.400	mg/L	85.6	90.0 - 110	126383997	*
Cyanide, total	2302464	0.371	0.0046	0.400	mg/L	92.8	90.0 - 110	126384003	

Analytical Set 1121588

EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	6.18	5.00	ng/L	124	70.0 - 130	126385116

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1121471	ND	1.20	5.00	ng/L	126385118
Mercury, Total (low level)	1121478	ND	1.20	5.00	ng/L	126385147

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	24.6	25.0	ng/L	98.4	87.0 - 113	126385117
Mercury, Total (low level)	24.3	25.0	ng/L	97.2	87.0 - 113	126385128
Mercury, Total (low level)	24.9	25.0	ng/L	99.6	87.0 - 113	126385139
Mercury, Total (low level)	23.4	25.0	ng/L	93.6	87.0 - 113	126385150

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	24.4	25.0	ng/L	97.6	87.0 - 113	126385160

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	47.6	50.0	ng/L	95.2	90.0 - 110	126385114

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	25.5	25.0	ng/L	102	90.0 - 110	126385115

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1121471	22.6	22.1	25.0	76.0 - 115	90.4	88.4	ng/L	2.24	50.0
Mercury, Total (low level)	1121478	21.0	20.3	25.0	76.0 - 115	84.0	81.2	ng/L	3.39	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2301124	0.765	0.999	ND	26.6	63.0 - 111	2.88 *	3.76 *	ng/L	26.5 *	18.0
Mercury, Total (low level)	2301905	17.0	17.5	ND	26.6	63.0 - 111	63.9	65.8	ng/L	2.90	18.0
Mercury, Total (low level)	2302528	20.2	21.1	1.30	26.6	63.0 - 111	71.1	74.4	ng/L	4.65	18.0

Analytical Set 1121902 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1121542	ND	46.9	250	ug/kg	126392165
2,4,5-TP (Silvex)	1121542	ND	14.9	250	ug/kg	126392165

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	155	150	ug/kg	103	80.0 - 115	126392164
2,4 Dichlorophenoxyacetic acid	154	150	ug/kg	103	80.0 - 115	126392169
2,4,5-TP (Silvex)	162	150	ug/kg	108	80.0 - 115	126392164
2,4,5-TP (Silvex)	163	150	ug/kg	109	80.0 - 115	126392169

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1121542	504	457	500	0.100 - 319	101	91.4	ug/kg	9.98	30.0
2,4,5-TP (Silvex)	1121542	442	457	500	0.100 - 244	88.4	91.4	ug/kg	3.34	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	165	200	ug/kg	82.5	0.100 - 313	126392164
2,4-Dichlorophenylacetic Acid		CCV	162	200	ug/kg	81.0	0.100 - 313	126392169
2,4-Dichlorophenylacetic Acid	1121542	Blank	124	200	ug/kg	62.0	0.100 - 313	126392165
2,4-Dichlorophenylacetic Acid	1121542	LCS	108	200	ug/kg	54.0	0.100 - 313	126392166
2,4-Dichlorophenylacetic Acid	1121542	LCS Dup	114	200	ug/kg	57.0	0.100 - 313	126392167
2,4-Dichlorophenylacetic Acid	2302476	Unknown	1.75	2.10	ug/kg	83.3	0.100 - 313	126392168

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Analytical Set 1122485

EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1121316	ND	0.731	1.00	ug/L	126409166
4,4-DDE	1121316	0.818	0.361	1.00	ug/L	126409166
4,4-DDT	1121316	ND	0.862	1.00	ug/L	126409166
Aldrin	1121316	ND	0.260	1.00	ug/L	126409166
Alpha-BHC(hexachlorocyclohexane)	1121316	ND	0.280	1.00	ug/L	126409166
alpha-Chlordane	1121316	ND	0.615	1.00	ug/L	126409166
Beta-BHC(hexachlorocyclohexane)	1121316	ND	0.579	1.00	ug/L	126409166
Delta-BHC(hexachlorocyclohexane)	1121316	ND	0.898	1.00	ug/L	126409166
Dieldrin	1121316	ND	0.162	1.00	ug/L	126409166
Endosulfan I (alpha)	1121316	ND	0.679	1.00	ug/L	126409166
Endosulfan II (beta)	1121316	ND	0.356	1.00	ug/L	126409166
Endosulfan sulfate	1121316	ND	0.588	1.00	ug/L	126409166
Endrin	1121316	ND	0.538	1.00	ug/L	126409166
Endrin aldehyde	1121316	ND	0.699	1.00	ug/L	126409166
Gamma-BHC(Lindane)	1121316	ND	0.385	1.00	ug/L	126409166
gamma-Chlordane	1121316	ND	0.415	1.00	ug/L	126409166
Heptachlor	1121316	0.318	0.207	1.00	ug/L	126409166
Heptachlor epoxide	1121316	0.823	0.660	1.00	ug/L	126409166
Kelthane (Dicofol)	1121316	ND	0.0208	0.100	ug/L	126409166
Methoxychlor	1121316	ND	0.898	1.00	ug/L	126409166
Mirex	1121316	ND	0.00889	0.015	ug/L	126409166
Toxaphene	1121316	ND	0.169	0.200	ug/L	126409166

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
4,4-DDD	50.8	50.0	ug/L	102	75.0 - 125	126409165
4,4-DDD	46.6	50.0	ug/L	93.2	75.0 - 125	126409174
4,4-DDE	47.1	50.0	ug/L	94.2	75.0 - 125	126409165
4,4-DDE	46.0	50.0	ug/L	92.0	75.0 - 125	126409174
4,4-DDT	50.7	50.0	ug/L	101	75.0 - 125	126409165
4,4-DDT	38.6	50.0	ug/L	77.2	75.0 - 125	126409174
Aldrin	45.9	50.0	ug/L	91.8	75.0 - 125	126409165
Aldrin	44.2	50.0	ug/L	88.4	75.0 - 125	126409174
Alpha-BHC(hexachlorocyclohexane)	46.5	50.0	ug/L	93.0	75.0 - 125	126409165
Alpha-BHC(hexachlorocyclohexane)	44.4	50.0	ug/L	88.8	75.0 - 125	126409174
alpha-Chlordane	45.1	50.0	ug/L	90.2	75.0 - 125	126409165
alpha-Chlordane	41.0	50.0	ug/L	82.0	75.0 - 125	126409174
Beta-BHC(hexachlorocyclohexane)	45.5	50.0	ug/L	91.0	75.0 - 125	126409165
Beta-BHC(hexachlorocyclohexane)	41.5	50.0	ug/L	83.0	75.0 - 125	126409174
Delta-BHC(hexachlorocyclohexane)	47.2	50.0	ug/L	94.4	75.0 - 125	126409165
Delta-BHC(hexachlorocyclohexane)	45.1	50.0	ug/L	90.2	75.0 - 125	126409174
Dieldrin	46.9	50.0	ug/L	93.8	75.0 - 125	126409165
Dieldrin	42.2	50.0	ug/L	84.4	75.0 - 125	126409174

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Parameter	Reading	Known	Units	Recover%	Limits%		File
Endosulfan I (alpha)	45.1	50.0	ug/L	90.2	75.0 - 125		126409165
Endosulfan I (alpha)	39.8	50.0	ug/L	79.6	75.0 - 125		126409174
Endosulfan II (beta)	46.7	50.0	ug/L	93.4	75.0 - 125		126409165
Endosulfan II (beta)	40.9	50.0	ug/L	81.8	75.0 - 125		126409174
Endosulfan sulfate	45.6	50.0	ug/L	91.2	75.0 - 125		126409165
Endosulfan sulfate	43.1	50.0	ug/L	86.2	75.0 - 125		126409174
Endrin	46.8	50.0	ug/L	93.6	75.0 - 125		126409165
Endrin	39.6	50.0	ug/L	79.2	75.0 - 125		126409174
Endrin aldehyde	53.8	50.0	ug/L	108	75.0 - 125		126409165
Endrin aldehyde	33.6	50.0	ug/L	67.2	75.0 - 125	*	126409174
Gamma-BHC(Lindane)	51.0	50.0	ug/L	102	75.0 - 125		126409165
Gamma-BHC(Lindane)	44.6	50.0	ug/L	89.2	75.0 - 125		126409174
gamma-Chlordane	45.4	50.0	ug/L	90.8	75.0 - 125		126409165
gamma-Chlordane	40.9	50.0	ug/L	81.8	75.0 - 125		126409174
Heptachlor	44.6	50.0	ug/L	89.2	75.0 - 125		126409165
Heptachlor	35.5	50.0	ug/L	71.0	75.0 - 125	*	126409174
Heptachlor epoxide	44.8	50.0	ug/L	89.6	75.0 - 125		126409165
Heptachlor epoxide	40.2	50.0	ug/L	80.4	75.0 - 125		126409174
Kelthane (Dicofol)	98.8	100	ug/L	98.8	75.0 - 125		126409165
Kelthane (Dicofol)	67.1	100	ug/L	67.1	75.0 - 125	*	126409174
Methoxychlor	53.4	50.0	ug/L	107	75.0 - 125		126409165
Methoxychlor	42.6	50.0	ug/L	85.2	75.0 - 125		126409174
Mirex	43.3	50.0	ug/L	86.6	75.0 - 125		126409165
Mirex	37.9	50.0	ug/L	75.8	75.0 - 125		126409174

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1121316	48.3	47.2	50.0	31.0 - 141	96.6	94.4	ug/L	2.30	39.0
4,4-DDE	1121316	42.9	43.1	50.0	30.0 - 145	85.8	86.2	ug/L	0.465	35.0
4,4-DDT	1121316	45.6	47.4	50.0	25.0 - 160	91.2	94.8	ug/L	3.87	42.0
Aldrin	1121316	38.5	40.9	50.0	42.0 - 140	77.0	81.8	ug/L	6.05	35.0
Alpha-BHC(hexachlorocyclohexane)	1121316	38.6	40.9	50.0	37.0 - 140	77.2	81.8	ug/L	5.79	36.0
alpha-Chlordane	1121316	40.4	40.8	50.0	45.0 - 140	80.8	81.6	ug/L	0.985	35.0
Beta-BHC(hexachlorocyclohexane)	1121316	48.0	49.5	50.0	17.0 - 147	96.0	99.0	ug/L	3.08	44.0
Delta-BHC(hexachlorocyclohexane)	1121316	42.2	43.2	50.0	19.0 - 140	84.4	86.4	ug/L	2.34	52.0
Dieldrin	1121316	42.2	42.0	50.0	36.0 - 146	84.4	84.0	ug/L	0.475	49.0
Endosulfan I (alpha)	1121316	35.4	35.6	50.0	45.0 - 153	70.8	71.2	ug/L	0.563	28.0
Endosulfan II (beta)	1121316	35.2	34.7	50.0	0.100 - 202	70.4	69.4	ug/L	1.43	53.0
Endosulfan sulfate	1121316	37.2	37.3	50.0	26.0 - 144	74.4	74.6	ug/L	0.268	38.0
Endrin	1121316	42.0	41.9	50.0	30.0 - 147	84.0	83.8	ug/L	0.238	48.0
Endrin aldehyde	1121316	51.6	51.4	50.0	37.6 - 158	103	103	ug/L	0	30.0
Gamma-BHC(Lindane)	1121316	41.3	43.0	50.0	32.0 - 140	82.6	86.0	ug/L	4.03	39.0
gamma-Chlordane	1121316	41.0	41.4	50.0	45.0 - 140	82.0	82.8	ug/L	0.971	35.0
Heptachlor	1121316	36.9	39.6	50.0	34.0 - 140	73.8	79.2	ug/L	7.06	43.0
Heptachlor epoxide	1121316	38.9	39.3	50.0	37.0 - 142	77.8	78.6	ug/L	1.02	26.0

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Eastex Environmental Lab
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Project 1104764

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1121316	1.09	1.03		0.500	70.0 - 130	218 *	206 *	ug/L	5.66	30.0
Methoxychlor	1121316	42.6	41.2		50.0	33.1 - 137	85.2	82.4	ug/L	3.34	30.0
Mirex	1121316	0.621	0.623		0.500	70.0 - 130	124	125	ug/L	0.803	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	47.6	100	ug/L	47.6	0.100 - 144	126409165
Decachlorobiphenyl	624136	CCV	43.6	100	ug/L	43.6	0.100 - 144	126409174
Tetrachloro-m-Xylene (Surr)	624136	CCV	45.6	100	ug/L	45.6	0.100 - 107	126409165
Tetrachloro-m-Xylene (Surr)	624136	CCV	43.2	100	ug/L	43.2	0.100 - 107	126409174
Decachlorobiphenyl	1121316	Blank	81.7	100	ug/L	81.7	0.100 - 144	126409166
Decachlorobiphenyl	1121316	LCS	92.0	100	ug/L	92.0	0.100 - 144	126409167
Decachlorobiphenyl	1121316	LCS Dup	89.5	100	ug/L	89.5	0.100 - 144	126409168
Tetrachloro-m-Xylene (Surr)	1121316	Blank	53.5	100	ug/L	53.5	0.100 - 107	126409166
Tetrachloro-m-Xylene (Surr)	1121316	LCS	51.0	100	ug/L	51.0	0.100 - 107	126409167
Tetrachloro-m-Xylene (Surr)	1121316	LCS Dup	55.4	100	ug/L	55.4	0.100 - 107	126409168
Decachlorobiphenyl	2302476	Unknown	0.0476	0.102	ug/L	46.7	0.100 - 144	126409169
Tetrachloro-m-Xylene (Surr)	2302476	Unknown	0.053	0.102	ug/L	52.0	0.100 - 107	126409169

Analytical Set 1122623

EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1121318	ND	0.202	0.202	ug/L	126412979
PCB-1221	1121318	ND	0.143	0.200	ug/L	126412979
PCB-1232	1121318	ND	0.143	0.200	ug/L	126412979
PCB-1242	1121318	ND	0.192	0.200	ug/L	126412979
PCB-1248	1121318	ND	0.143	0.200	ug/L	126412979
PCB-1254	1121318	ND	0.143	0.200	ug/L	126412979
PCB-1260	1121318	ND	0.161	0.200	ug/L	126412979
PCB-1262	1121318	ND	0.198	0.200	ug/L	126412979
PCB-1268	1121318	ND	0.143	0.200	ug/L	126412979

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	968	1000	ug/L	96.8	80.0 - 115		126412978
PCB-1016	1140	1000	ug/L	114	80.0 - 115		126412988
PCB-1016	1170	1000	ug/L	117	80.0 - 115	*	126412997
PCB-1016	1170	1000	ug/L	117	80.0 - 115	*	126412998
PCB-1260	853	1000	ug/L	85.3	80.0 - 115		126412978
PCB-1260	939	1000	ug/L	93.9	80.0 - 115		126412988
PCB-1260	1010	1000	ug/L	101	80.0 - 115		126412997
PCB-1260	987	1000	ug/L	98.7	80.0 - 115		126412998

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1121318	776	774		1000	39.8 - 135	77.6	77.4	ug/L	0.258	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1260	1121318	603	623	1000	36.1 - 134	60.3	62.3	ug/L	3.26	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1121318	Blank	81.7	100	ug/L	81.7	10.0 - 200	126412979
Tetrachloro-m-Xylene (Surr)	1121318	Blank	53.5	100	ug/L	53.5	10.0 - 200	126412979
Decachlorobiphenyl	2302476	Unknown	0.0476	0.102	ug/L	46.7	10.0 - 200	126412982
Tetrachloro-m-Xylene (Surr)	2302476	Unknown	0.053	0.102	ug/L	52.0	10.0 - 200	126412982

Analytical Set 1122845

EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1121528	ND	0.517	1.00	ug/L	126419113
1,2,4-Trichlorobenzene	1121528	ND	0.720	1.00	ug/L	126419113
1,2-Dichlorobenzene	1121528	ND	0.598	1.00	ug/L	126419113
1,2-DPH (as azobenzene)	1121528	ND	0.695	1.00	ug/L	126419113
1,3-Dichlorobenzene	1121528	ND	0.686	1.00	ug/L	126419113
1,4-Dichlorobenzene	1121528	ND	0.633	1.00	ug/L	126419113
2,4,5-Trichlorophenol	1121528	ND	0.734	1.00	ug/L	126419113
2,4,6-Trichlorophenol	1121528	ND	0.704	1.00	ug/L	126419113
2,4-Dichlorophenol	1121528	ND	0.567	1.00	ug/L	126419113
2,4-Dimethylphenol	1121528	ND	2.32	2.40	ug/L	126419113
2,4-Dinitrophenol	1121528	ND	8.07	9.00	ug/L	126419113
2,4-Dinitrotoluene	1121528	ND	3.35	3.50	ug/L	126419113
2,6-Dinitrotoluene	1121528	ND	0.675	1.00	ug/L	126419113
2-Chloronaphthalene	1121528	ND	0.333	1.00	ug/L	126419113
2-Chlorophenol	1121528	ND	0.367	1.00	ug/L	126419113
2-Methylphenol (o-Cresol)	1121528	ND	5.13	5.20	ug/L	126419113
2-Nitrophenol	1121528	ND	0.495	1.00	ug/L	126419113
3&4-Methylphenol (m&p-Cresol)	1121528	ND	6.15	6.20	ug/L	126419113
3,3'-Dichlorobenzidine	1121528	ND	4.79	5.00	ug/L	126419113
4,6-Dinitro-2-methylphenol	1121528	ND	7.88	8.00	ug/L	126419113
4-Bromophenyl phenyl ether	1121528	ND	0.311	1.00	ug/L	126419113
4-Chlorophenyl phenyl ethe	1121528	ND	0.281	1.00	ug/L	126419113
4-Nitrophenol	1121528	ND	0.932	1.00	ug/L	126419113
Acenaphthene	1121528	ND	0.139	1.00	ug/L	126419113
Acenaphthylene	1121528	ND	0.202	1.00	ug/L	126419113
Aniline	1121528	ND	0.367	1.00	ug/L	126419113
Anthracene	1121528	ND	0.538	1.00	ug/L	126419113
Benzidine	1121528	ND	19.9	20.0	ug/L	126419113
Benzo(a)anthracene	1121528	ND	0.627	1.00	ug/L	126419113
Benzo(a)pyrene	1121528	ND	0.478	1.00	ug/L	126419113
Benzo(b)fluoranthene	1121528	ND	0.517	1.00	ug/L	126419113
Benzo(ghi)perylene	1121528	ND	0.750	1.00	ug/L	126419113
Benzo(k)fluoranthene	1121528	ND	0.763	1.00	ug/L	126419113

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Benzyl Butyl phthalate	1121528	ND	0.696	7.50	ug/L	126419113
Bis(2-chloroethoxy)methane	1121528	ND	0.312	1.00	ug/L	126419113
Bis(2-chloroethyl)ether	1121528	ND	0.434	1.00	ug/L	126419113
Bis(2-chloroisopropyl)ether	1121528	ND	0.448	1.00	ug/L	126419113
Bis(2-ethylhexyl)phthalate	1121528	ND	1.63	7.50	ug/L	126419113
Chrysene (Benzo(a)phenanthrene)	1121528	ND	0.575	1.00	ug/L	126419113
Dibenz(a,h)anthracene	1121528	ND	0.872	1.00	ug/L	126419113
Diethyl phthalate	1121528	ND	0.721	5.70	ug/L	126419113
Dimethyl phthalate	1121528	ND	0.497	4.80	ug/L	126419113
Di-n-butylphthalate	1121528	ND	0.834	7.50	ug/L	126419113
Di-n-octylphthalate	1121528	ND	0.782	1.00	ug/L	126419113
Fluoranthene(Benzo(j,k)fluorene)	1121528	ND	0.772	1.00	ug/L	126419113
Fluorene	1121528	ND	0.512	1.00	ug/L	126419113
Hexachlorobenzene	1121528	ND	0.187	1.00	ug/L	126419113
Hexachlorobutadiene	1121528	ND	0.618	1.00	ug/L	126419113
Hexachlorocyclopentadiene	1121528	ND	8.69	9.00	ug/L	126419113
Hexachloroethane	1121528	ND	0.789	1.00	ug/L	126419113
Indeno(1,2,3-cd)pyrene	1121528	ND	0.793	1.00	ug/L	126419113
Isophorone	1121528	ND	0.468	1.00	ug/L	126419113
Naphthalene	1121528	ND	0.387	1.00	ug/L	126419113
Nitrobenzene	1121528	ND	0.390	1.00	ug/L	126419113
n-Nitrosodiethylamine	1121528	ND	0.282	1.00	ug/L	126419113
N-Nitrosodimethylamine	1121528	ND	6.64	7.00	ug/L	126419113
n-Nitroso-di-n-butylamine	1121528	ND	0.403	1.00	ug/L	126419113
N-Nitrosodi-n-propylamine	1121528	ND	0.777	1.00	ug/L	126419113
N-Nitrosodiphenylamine (as DPA	1121528	ND	0.427	1.00	ug/L	126419113
p-Chloro-m-Cresol (4-Chloro-3-me	1121528	ND	2.35	2.40	ug/L	126419113
Pentachlorobenzene	1121528	ND	0.420	1.00	ug/L	126419113
Pentachlorophenol	1121528	ND	0.129	1.00	ug/L	126419113
Phenanthrene	1121528	ND	0.624	1.00	ug/L	126419113
Phenol	1121528	ND	1.50	1.50	ug/L	126419113
Pyrene	1121528	ND	0.587	1.00	ug/L	126419113
Pyridine	1121528	ND	5.33	5.40	ug/L	126419113

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	57800	50000	ug/L	116	60.0 - 140	126419112
1,2,4-Trichlorobenzene	53300	50000	ug/L	107	61.0 - 130	126419112
1,2-Dichlorobenzene	51900	50000	ug/L	104	60.0 - 140	126419112
1,2-DPH (as azobenzene)	49700	50000	ug/L	99.4	60.0 - 140	126419112
1,3-Dichlorobenzene	52800	50000	ug/L	106	60.0 - 140	126419112
1,4-Dichlorobenzene	52600	50000	ug/L	105	60.0 - 140	126419112
2,4,5-Trichlorophenol	46100	50000	ug/L	92.2	69.0 - 130	126419112
2,4,6-Trichlorophenol	54000	50000	ug/L	108	69.0 - 130	126419112
2,4-Dichlorophenol	46400	50000	ug/L	92.8	64.0 - 130	126419112

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Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4-Dimethylphenol	42600	50000	ug/L	85.2	58.0 - 130	126419112
2,4-Dinitrophenol	52000	50000	ug/L	104	39.0 - 173	126419112
2,4-Dinitrotoluene	53400	50000	ug/L	107	53.0 - 130	126419112
2,6-Dinitrotoluene	50600	50000	ug/L	101	68.0 - 137	126419112
2-Chloronaphthalene	50300	50000	ug/L	101	70.0 - 130	126419112
2-Chlorophenol	52000	50000	ug/L	104	55.0 - 130	126419112
2-Methylphenol (o-Cresol)	45700	50000	ug/L	91.4	60.0 - 140	126419112
2-Nitrophenol	52200	50000	ug/L	104	61.0 - 163	126419112
3&4-Methylphenol (m&p-Cresol)	46000	50000	ug/L	92.0	60.0 - 140	126419112
3,3'-Dichlorobenzidine	49700	50000	ug/L	99.4	18.0 - 213	126419112
4,6-Dinitro-2-methylphenol	53600	50000	ug/L	107	56.0 - 130	126419112
4-Bromophenyl phenyl ether	48000	50000	ug/L	96.0	70.0 - 130	126419112
4-Chlorophenyl phenyl ethe	47000	50000	ug/L	94.0	57.0 - 145	126419112
4-Nitrophenol	58000	50000	ug/L	116	35.0 - 135	126419112
Acenaphthene	55700	50000	ug/L	111	70.0 - 130	126419112
Acenaphthylene	52500	50000	ug/L	105	60.0 - 130	126419112
Aniline	46800	50000	ug/L	93.6	60.0 - 140	126419112
Anthracene	52000	50000	ug/L	104	58.0 - 130	126419112
Benzidine	25000	50000	ug/L	50.0	20.0 - 180	126419112
Benzo(a)anthracene	51300	50000	ug/L	103	42.0 - 133	126419112
Benzo(a)pyrene	55500	50000	ug/L	111	32.0 - 148	126419112
Benzo(b)fluoranthene	50400	50000	ug/L	101	42.0 - 140	126419112
Benzo(ghi)perylene	54800	50000	ug/L	110	13.0 - 195	126419112
Benzo(k)fluoranthene	55800	50000	ug/L	112	25.0 - 146	126419112
Benzyl Butyl phthalate	47800	50000	ug/L	95.6	43.0 - 140	126419112
Bis(2-chloroethoxy)methane	50400	50000	ug/L	101	52.0 - 164	126419112
Bis(2-chloroethyl)ether	49900	50000	ug/L	99.8	52.0 - 130	126419112
Bis(2-chloroisopropyl)ether	54100	50000	ug/L	108	63.0 - 139	126419112
Bis(2-ethylhexyl)phthalate	48500	50000	ug/L	97.0	43.0 - 137	126419112
Chrysene (Benzo(a)phenanthrene)	54100	50000	ug/L	108	44.0 - 140	126419112
Dibenz(a,h)anthracene	48500	50000	ug/L	97.0	13.0 - 200	126419112
Diethyl phthalate	52400	50000	ug/L	105	47.0 - 130	126419112
Dimethyl phthalate	55700	50000	ug/L	111	50.0 - 130	126419112
Di-n-butylphthalate	52700	50000	ug/L	105	52.0 - 130	126419112
Di-n-octylphthalate	53800	50000	ug/L	108	21.0 - 132	126419112
Fluoranthene(Benzo(j,k)fluorene)	57700	50000	ug/L	115	47.0 - 130	126419112
Fluorene	50100	50000	ug/L	100	70.0 - 130	126419112
Hexachlorobenzene	51000	50000	ug/L	102	38.0 - 142	126419112
Hexachlorobutadiene	51300	50000	ug/L	103	68.0 - 130	126419112
Hexachlorocyclopentadiene	45700	50000	ug/L	91.4	60.0 - 140	126419112
Hexachloroethane	48500	50000	ug/L	97.0	55.0 - 130	126419112
Indeno(1,2,3-cd)pyrene	48700	50000	ug/L	97.4	13.0 - 151	126419112
Isophorone	56100	50000	ug/L	112	52.0 - 180	126419112
Naphthalene	52200	50000	ug/L	104	70.0 - 130	126419112
Nitrobenzene	51100	50000	ug/L	102	54.0 - 158	126419112

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Parameter	Reading	Known	Units	Recover%	Limits%	File
n-Nitrosodiethylamine	47800	50000	ug/L	95.6	60.0 - 140	126419112
N-Nitrosodimethylamine	49800	50000	ug/L	99.6	60.0 - 140	126419112
n-Nitroso-di-n-butylamine	46800	50000	ug/L	93.6	60.0 - 140	126419112
N-Nitrosodi-n-propylamine	52800	50000	ug/L	106	59.0 - 170	126419112
N-Nitrosodiphenylamine (as DPA	43300	50000	ug/L	86.6	60.0 - 140	126419112
p-Chloro-m-Cresol (4-Chloro-3-me	43000	50000	ug/L	86.0	68.0 - 130	126419112
Pentachlorobenzene	47100	50000	ug/L	94.2	60.0 - 140	126419112
Pentachlorophenol	55900	50000	ug/L	112	42.0 - 152	126419112
Phenanthrene	50400	50000	ug/L	101	67.0 - 130	126419112
Phenol	50100	50000	ug/L	100	48.0 - 130	126419112
Pyrene	43600	50000	ug/L	87.2	70.0 - 130	126419112
Pyridine	52400	50000	ug/L	105	60.0 - 140	126419112

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	625102	198	29496	56.9	40.0 - 60.0	126419110
DFTPP Mass 197	625102	198	467	0.9	0 - 1.00	126419110
DFTPP Mass 198	625102	198	51808	100.0	100 - 100	126419110
DFTPP Mass 199	625102	198	3888	7.5	5.00 - 9.00	126419110
DFTPP Mass 275	625102	198	13975	27.0	10.0 - 30.0	126419110
DFTPP Mass 365	625102	198	3220	6.2	1.00 - 100	126419110
DFTPP Mass 441	625102	443	4285	79.0	0 - 100	126419110
DFTPP Mass 442	625102	198	28124	54.3	40.0 - 100	126419110
DFTPP Mass 443	625102	442	5423	19.3	17.0 - 23.0	126419110
DFTPP Mass 51	625102	198	30928	59.7	30.0 - 60.0	126419110
DFTPP Mass 68	625102	69.0	371	1.4	0 - 2.00	126419110
DFTPP Mass 69	625102	198	27421	52.9	0 - 100	126419110
DFTPP Mass 70	625102	69.0	138	0.5	0 - 2.00	126419110

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1121528	10.1	8.84	12.5	27.5 - 85.5	80.8	70.7	ug/L	13.3	50.0
1,2,4-Trichlorobenzene	1121528	9.53	9.41	12.5	44.0 - 142	76.2	75.3	ug/L	1.19	50.0
1,2-Dichlorobenzene	1121528	9.85	8.78	12.5	23.0 - 81.8	78.8	70.2	ug/L	11.5	50.0
1,2-DPH (as azobenzene)	1121528	11.0	11.4	12.5	12.6 - 110	88.0	91.2	ug/L	3.57	50.0
1,3-Dichlorobenzene	1121528	9.12	8.44	12.5	21.1 - 80.5	73.0	67.5	ug/L	7.83	50.0
1,4-Dichlorobenzene	1121528	9.17	8.75	12.5	21.4 - 76.9	73.4	70.0	ug/L	4.74	50.0
2,4,5-Trichlorophenol	1121528	11.0	10.3	12.5	51.3 - 109	88.0	82.4	ug/L	6.57	50.0
2,4,6-Trichlorophenol	1121528	11.2	11.2	12.5	37.0 - 144	89.6	89.6	ug/L	0	58.0
2,4-Dichlorophenol	1121528	10.6	10.9	12.5	39.0 - 135	84.8	87.2	ug/L	2.79	50.0
2,4-Dimethylphenol	1121528	2.16	1.99	12.5	23.0 - 120	17.3 *	15.9 *	ug/L	8.43	68.0
2,4-Dinitrophenol	1121528	10.2	9.10	12.5	0.100 - 191	81.6	72.8	ug/L	11.4	132
2,4-Dinitrotoluene	1121528	12.5	11.5	12.5	39.0 - 139	100	92.0	ug/L	8.33	42.0
2,6-Dinitrotoluene	1121528	12.4	12.7	12.5	50.0 - 158	99.2	102	ug/L	2.78	48.0
2-Chloronaphthalene	1121528	10.6	9.69	12.5	60.0 - 120	84.8	77.5	ug/L	9.00	24.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2-Chlorophenol	1121528	11.0	10.4	12.5	23.0 - 134	88.0	83.2	ug/L	5.61	61.0
2-Methylphenol (o-Cresol)	1121528	8.33	8.30	12.5	38.9 - 76.1	66.6	66.4	ug/L	0.301	50.0
2-Nitrophenol	1121528	11.3	11.6	12.5	29.0 - 182	90.4	92.8	ug/L	2.62	55.0
3&4-Methylphenol (m&p-Cresol)	1121528	7.07	6.50	12.5	33.0 - 70.4	56.6	52.0	ug/L	8.47	50.0
3,3'-Dichlorobenzidine	1121528	10.2	10.1	12.5	0.100 - 262	81.6	80.8	ug/L	0.985	108
4,6-Dinitro-2-methylphenol	1121528	10.1	10.2	12.5	0.100 - 181	80.8	81.6	ug/L	0.985	203
4-Bromophenyl phenyl ether	1121528	12.3	13.0	12.5	53.0 - 127	98.4	104	ug/L	5.53	43.0
4-Chlorophenyl phenyl ethe	1121528	12.1	11.4	12.5	25.0 - 158	96.8	91.2	ug/L	5.96	61.0
4-Nitrophenol	1121528	5.69	5.67	12.5	0.100 - 132	45.5	45.4	ug/L	0.220	131
Acenaphthene	1121528	11.0	10.2	12.5	47.0 - 145	88.0	81.6	ug/L	7.55	48.0
Acenaphthylene	1121528	12.0	10.9	12.5	33.0 - 145	96.0	87.2	ug/L	9.61	74.0
Aniline	1121528	9.25	8.82	12.5	70.0 - 130	74.0	70.6	ug/L	4.70	50.0
Anthracene	1121528	11.9	12.0	12.5	27.0 - 133	95.2	96.0	ug/L	0.837	66.0
Benzidine	1121528	2.04	0.760	12.5	0.100 - 36.9	16.3	6.08	ug/L	91.3 *	90.0
Benzo(a)anthracene	1121528	9.99	9.76	12.5	33.0 - 143	79.9	78.1	ug/L	2.28	53.0
Benzo(a)pyrene	1121528	10.9	11.0	12.5	17.0 - 163	87.2	88.0	ug/L	0.913	72.0
Benzo(b)fluoranthene	1121528	9.79	9.93	12.5	24.0 - 159	78.3	79.4	ug/L	1.40	71.0
Benzo(ghi)perylene	1121528	11.7	12.9	12.5	0.100 - 219	93.6	103	ug/L	9.56	97.0
Benzo(k)fluoranthene	1121528	11.6	10.4	12.5	11.0 - 162	92.8	83.2	ug/L	10.9	63.0
Benzyl Butyl phthalate	1121528	11.0	11.2	12.5	0.100 - 152	88.0	89.6	ug/L	1.80	60.0
Bis(2-chloroethoxy)methane	1121528	11.1	10.2	12.5	33.0 - 184	88.8	81.6	ug/L	8.45	54.0
Bis(2-chloroethyl)ether	1121528	11.6	10.8	12.5	12.0 - 158	92.8	86.4	ug/L	7.14	108
Bis(2-chloroisopropyl)ether	1121528	11.2	10.9	12.5	36.0 - 166	89.6	87.2	ug/L	2.71	76.0
Bis(2-ethylhexyl)phthalate	1121528	12.0	11.3	12.5	8.00 - 158	96.0	90.4	ug/L	6.01	82.0
Chrysene (Benzo(a)phenanthrene)	1121528	11.8	10.8	12.5	17.0 - 168	94.4	86.4	ug/L	8.85	87.0
Dibenz(a,h)anthracene	1121528	10.3	10.2	12.5	0.100 - 227	82.4	81.6	ug/L	0.976	126
Diethyl phthalate	1121528	11.8	11.3	12.5	0.100 - 120	94.4	90.4	ug/L	4.33	100
Dimethyl phthalate	1121528	12.5	11.4	12.5	0.100 - 120	100	91.2	ug/L	9.21	183
Di-n-butylphthalate	1121528	13.7	12.9	12.5	1.00 - 120	110	103	ug/L	6.57	47.0
Di-n-octylphthalate	1121528	9.36	8.58	12.5	4.00 - 146	74.9	68.6	ug/L	8.78	69.0
Fluoranthene(Benzo(j,k)fluorene)	1121528	13.7	13.6	12.5	26.0 - 137	110	109	ug/L	0.913	66.0
Fluorene	1121528	12.3	11.6	12.5	59.0 - 121	98.4	92.8	ug/L	5.86	38.0
Hexachlorobenzene	1121528	11.7	10.1	12.5	0.100 - 152	93.6	80.8	ug/L	14.7	55.0
Hexachlorobutadiene	1121528	10.6	9.80	12.5	24.0 - 120	84.8	78.4	ug/L	7.84	62.0
Hexachlorocyclopentadiene	1121528	6.04	5.52	12.5	3.97 - 68.7	48.3	44.2	ug/L	8.86	50.0
Hexachloroethane	1121528	8.91	8.13	12.5	40.0 - 120	71.3	65.0	ug/L	9.24	52.0
Indeno(1,2,3-cd)pyrene	1121528	10.2	10.8	12.5	0.100 - 171	81.6	86.4	ug/L	5.71	99.0
Isophorone	1121528	12.1	11.1	12.5	21.0 - 196	96.8	88.8	ug/L	8.62	93.0
Naphthalene	1121528	10.3	9.71	12.5	21.0 - 133	82.4	77.7	ug/L	5.87	65.0
Nitrobenzene	1121528	10.8	10.9	12.5	35.0 - 180	86.4	87.2	ug/L	0.922	62.0
n-Nitrosodiethylamine	1121528	9.51	9.66	12.5	18.0 - 100	76.1	77.3	ug/L	1.56	50.0
N-Nitrosodimethylamine	1121528	8.56	7.60	12.5	30.2 - 74.9	68.5	60.8	ug/L	11.9	50.0
n-Nitroso-di-n-butylamine	1121528	11.4	11.0	12.5	48.4 - 98.5	91.2	88.0	ug/L	3.57	50.0
N-Nitrosodi-n-propylamine	1121528	11.6	10.9	12.5	0.100 - 230	92.8	87.2	ug/L	6.22	87.0
N-Nitrosodiphenylamine (as DPA	1121528	10.6	10.9	12.5	49.3 - 94.2	84.8	87.2	ug/L	2.79	50.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
p-Chloro-m-Cresol (4-Chloro-3-me	1121528	11.0	10.8	12.5	22.0 - 147	88.0	86.4	ug/L	1.83	70.0
Pentachlorobenzene	1121528	12.0	11.4	12.5	39.3 - 93.7	96.0 *	91.2	ug/L	5.13	50.0
Pentachlorophenol	1121528	12.3	13.5	12.5	14.0 - 176	98.4	108	ug/L	9.30	86.0
Phenanthrene	1121528	11.9	12.1	12.5	54.0 - 120	95.2	96.8	ug/L	1.67	39.0
Phenol	1121528	4.52	4.78	12.5	5.00 - 120	36.2	38.2	ug/L	5.38	64.0
Pyrene	1121528	11.6	11.1	12.5	52.0 - 120	92.8	88.8	ug/L	4.41	49.0
Pyridine	1121528	7.76	6.28	12.5	11.2 - 50.6	62.1 *	50.2	ug/L	21.2	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	624579	CCV	52000	100000	ug/L	52.0	10.0 - 150	126419112
2-Fluorophenol-SURR	624579	CCV	55900	100000	ug/L	55.9	10.0 - 150	126419112
4-Terphenyl-d14-SURR	624579	CCV	41000	50000	ug/L	82.0	30.0 - 150	126419112
Nitrobenzene-d5-SURR	624579	CCV	51100	50000	ug/L	102	30.0 - 150	126419112
Phenol-d6-SURR	624579	CCV	53100	100000	ug/L	53.1	10.0 - 150	126419112
2,4,6-Tribromophenol	1121528	Blank	91.1	100	ug/L	91.1	10.0 - 150	126419113
2,4,6-Tribromophenol	1121528	LCS	56.0	100	ug/L	56.0	10.0 - 150	126419114
2,4,6-Tribromophenol	1121528	LCS Dup	55.4	100	ug/L	55.4	10.0 - 150	126419115
2-Fluorophenol-SURR	1121528	Blank	65200	100000	ug/L	65.2	10.0 - 150	126419113
2-Fluorophenol-SURR	1121528	LCS	38200	100000	ug/L	38.2	10.0 - 150	126419114
2-Fluorophenol-SURR	1121528	LCS Dup	34100	100000	ug/L	34.1	10.0 - 150	126419115
4-Terphenyl-d14-SURR	1121528	Blank	33300	50000	ug/L	66.6	30.0 - 150	126419113
4-Terphenyl-d14-SURR	1121528	LCS	21800	50000	ug/L	43.6	30.0 - 150	126419114
4-Terphenyl-d14-SURR	1121528	LCS Dup	20700	50000	ug/L	41.4	30.0 - 150	126419115
Nitrobenzene-d5-SURR	1121528	Blank	40700	50000	ug/L	81.4	30.0 - 150	126419113
Nitrobenzene-d5-SURR	1121528	LCS	21900	50000	ug/L	43.8	30.0 - 150	126419114
Nitrobenzene-d5-SURR	1121528	LCS Dup	21500	50000	ug/L	43.0	30.0 - 150	126419115
Phenol-d6-SURR	1121528	Blank	42000	100000	ug/L	42.0	10.0 - 150	126419113
Phenol-d6-SURR	1121528	LCS	23000	100000	ug/L	23.0	10.0 - 150	126419114
Phenol-d6-SURR	1121528	LCS Dup	22100	100000	ug/L	22.1	10.0 - 150	126419115
2,4,6-Tribromophenol	2302476	Unknown	99.7	102	ug/L	97.7	10.0 - 150	126419117
2-Fluorophenol-SURR	2302476	Unknown	56.3	102	ug/L	55.2	10.0 - 150	126419117
4-Terphenyl-d14-SURR	2302476	Unknown	51.9	50.8	ug/L	102	30.0 - 150	126419117
Nitrobenzene-d5-SURR	2302476	Unknown	40.1	50.8	ug/L	78.9	30.0 - 150	126419117
Phenol-d6-SURR	2302476	Unknown	38.4	102	ug/L	37.6	10.0 - 150	126419117

Analytical Set 1122871

ASTM D7065-11

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1122298	ND	5.00	30.0	ug/L	126419398

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	293000	300000	ug/L	97.5	70.0 - 130	126419397
Nonylphenol	299000	300000	ug/L	99.7	70.0 - 130	126419405

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	760100	760100	380100	1140000	126419397	624841
Acenaphthene-d10-ISTD	624841	CCV	706900	760100	380100	1140000	126419405	624841
Phenanthrene-d10-ISTD	624841	CCV	981000	981000	490500	1471000	126419397	624841
Phenanthrene-d10-ISTD	624841	CCV	925500	981000	490500	1471000	126419405	624841
Acenaphthene-d10-ISTD	1122298	Blank	681400	760100	380100	1140000	126419398	1122298
Acenaphthene-d10-ISTD	1122298	LCS	663100	760100	380100	1140000	126419399	1122298
Acenaphthene-d10-ISTD	1122298	LCS Dup	581500	760100	380100	1140000	126419400	1122298
Phenanthrene-d10-ISTD	1122298	Blank	930700	981000	490500	1471000	126419398	1122298
Phenanthrene-d10-ISTD	1122298	LCS	890000	981000	490500	1471000	126419399	1122298
Phenanthrene-d10-ISTD	1122298	LCS Dup	773800	981000	490500	1471000	126419400	1122298
Acenaphthene-d10-ISTD	2302476	Unknown	627400	760100	380100	1140000	126419402	1122298
Phenanthrene-d10-ISTD	2302476	Unknown	856700	981000	490500	1471000	126419402	1122298

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	624841	CCV	7.294	7.294	7.234	7.354	126419397	624841
Acenaphthene-d10-ISTD	624841	CCV	7.294	7.294	7.234	7.354	126419405	624841
Phenanthrene-d10-ISTD	624841	CCV	8.538	8.538	8.478	8.598	126419397	624841
Phenanthrene-d10-ISTD	624841	CCV	8.538	8.538	8.478	8.598	126419405	624841
Acenaphthene-d10-ISTD	1122298	Blank	7.294	7.294	7.234	7.354	126419398	1122298
Acenaphthene-d10-ISTD	1122298	LCS	7.300	7.294	7.234	7.354	126419399	1122298
Acenaphthene-d10-ISTD	1122298	LCS Dup	7.300	7.294	7.234	7.354	126419400	1122298
Phenanthrene-d10-ISTD	1122298	Blank	8.532	8.538	8.478	8.598	126419398	1122298
Phenanthrene-d10-ISTD	1122298	LCS	8.538	8.538	8.478	8.598	126419399	1122298
Phenanthrene-d10-ISTD	1122298	LCS Dup	8.538	8.538	8.478	8.598	126419400	1122298
Acenaphthene-d10-ISTD	2302476	Unknown	7.294	7.294	7.234	7.354	126419402	1122298
Phenanthrene-d10-ISTD	2302476	Unknown	8.532	8.538	8.478	8.598	126419402	1122298

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1122298	124	127	150	56.0 - 112	82.7	84.7	ug/L	2.39	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	624841	CCV	49000	50000	ug/L	98.0	50.0 - 130	126419397
4-Nonylphenol-SURR	624841	CCV	50600	50000	ug/L	101	50.0 - 130	126419405
4-Nonylphenol-SURR	1122298	Blank	21600	25000	ug/L	86.4	50.0 - 130	126419398
4-Nonylphenol-SURR	1122298	LCS	22400	25000	ug/L	89.6	50.0 - 130	126419399
4-Nonylphenol-SURR	1122298	LCS Dup	23800	25000	ug/L	95.2	50.0 - 130	126419400
4-Nonylphenol-SURR	2302476	Unknown	22.9	25.1	ug/L	91.2	50.0 - 130	126419402

Analytical Set 1123550

EPA 622

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	126435815
Chlorpyrifos	1100	1000	ug/L	110	48.0 - 150	126435820

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1020	1000	ug/L	102	0.100 - 115	126435815
Tributylphosphate		CCV	1090	1000	ug/L	109	0.100 - 115	126435820
Triphenylphosphate		CCV	1030	1000	ug/L	103	0.100 - 115	126435815
Triphenylphosphate		CCV	1020	1000	ug/L	102	0.100 - 115	126435820

Analytical Set 1123552 — EPA 614

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	980	1000	ug/L	98.0	37.5 - 164	126435859
Azinphos-methyl (Guthion)	1530	1000	ug/L	153	37.5 - 164	126435864
Demeton	1020	1000	ug/L	102	58.6 - 150	126435859
Demeton	1240	1000	ug/L	124	58.6 - 150	126435864
Diazinon	1020	1000	ug/L	102	65.4 - 138	126435859
Diazinon	1130	1000	ug/L	113	65.4 - 138	126435864
Malathion	1020	1000	ug/L	102	49.5 - 160	126435859
Malathion	1160	1000	ug/L	116	49.5 - 160	126435864
Parathion, ethyl	1020	1000	ug/L	102	56.0 - 142	126435859
Parathion, ethyl	1230	1000	ug/L	123	56.0 - 142	126435864
Parathion, methyl	1040	1000	ug/L	104	12.6 - 194	126435859
Parathion, methyl	1280	1000	ug/L	128	12.6 - 194	126435864

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	126435859
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126435864
Triphenylphosphate		CCV	1030	2000	ug/L	51.5	0.100 - 172	126435859
Triphenylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 172	126435864
Tributylphosphate	2302476	Unknown	0.610	2.04	ug/L	29.9	0.100 - 106	126435863
Triphenylphosphate	2302476	Unknown	0.488	2.04	ug/L	23.9	0.100 - 172	126435863

Analytical Set 1123857 — EPA 632

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1121530	ND	66.1	2500	ug/L	126443827
Diuron	1121530	ND	44.4	45.0	ug/L	126443827

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1530	1500	ug/L	102	70.0 - 130	126443826
Carbaryl (Sevin)	1540	1500	ug/L	102	70.0 - 130	126443830
Carbaryl (Sevin)	1560	1500	ug/L	104	70.0 - 130	126443833
Diuron	1540	1500	ug/L	102	70.0 - 130	126443826
Diuron	1550	1500	ug/L	103	70.0 - 130	126443830
Diuron	1560	1500	ug/L	104	70.0 - 130	126443833

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EEL3-G

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Project
1104764

Printed 06/18/2024

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Carbaryl (Sevin)	**1121530**	**1080**	**1020**	**1000**	**17.1 - 131**	**108**	**102**	ug/L	5.71	30.0
Diuron	**1121530**	**874**	**805**	**1000**	**0.100 - 138**	**87.4**	**80.5**	ug/L	8.22	30.0

* 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); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; 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.); DFTPP - GC/MS Tuning Compound; IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.)

1104764 CoC Print Group 001 of 001

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1104764 CoC Print Group 001 of 001

SUBCONTRACT ORDER

EASTEX ENVIRONMENTAL LABS INC.

Sending Laboratory:

Eastex Environmental Laboratory - Coldspring
PO Box 1089
Coldspring, TX 77331

Phone: 936-653-3249
eastexlab@eastex.net
Project Manager: Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Ana Lab/SPL Inc
PO BOX 3275
Kilgore, TX 75663

Phone: (903) 984-0551
Fax:

5/27/24

PO 052824B

Requested Turnaround 10 Days

Sample ID: NorthAmpton Long Permit Renewal Effluent Comp 05/24/2024 00:00 **Sample No: C4E5934-01** ***Water*** **Sampled:**

Semi-Volatiles-Permit (625.1)
Pesticides-Permit 608.3
Pesticides Mirex,Dicofol 608.3
PCB-Permit 608.3
Organophosphorus Pesticides
Nonylphenol
Mercury LL Blank
Mercury LL
Carbaryl/Diuron EPA 632
Acidic Herbicides-Permit

Containers Supplied: 11

2302474
2302493 - Blank
Please do not run any volatiles or metals, except mercury and cyanide.

Special Instructions:

Sample ID: NorthAmpton Long Permit Renewal Effluent Grab 05/24/2024 08:00 **Sample No: C4E5934-02** ***Water*** **Sampled:**

Cyanide, Total

Containers Supplied: 1

Special Instructions:

☑ **See Attached**

Received Iced (Y/N

Temp:_____

NorthAmpton

Released By

5-28-24 1000
Date & Time

Garth Canterbury - SPL, Inc.
Received By

5/28/24 11:45
Date & Time

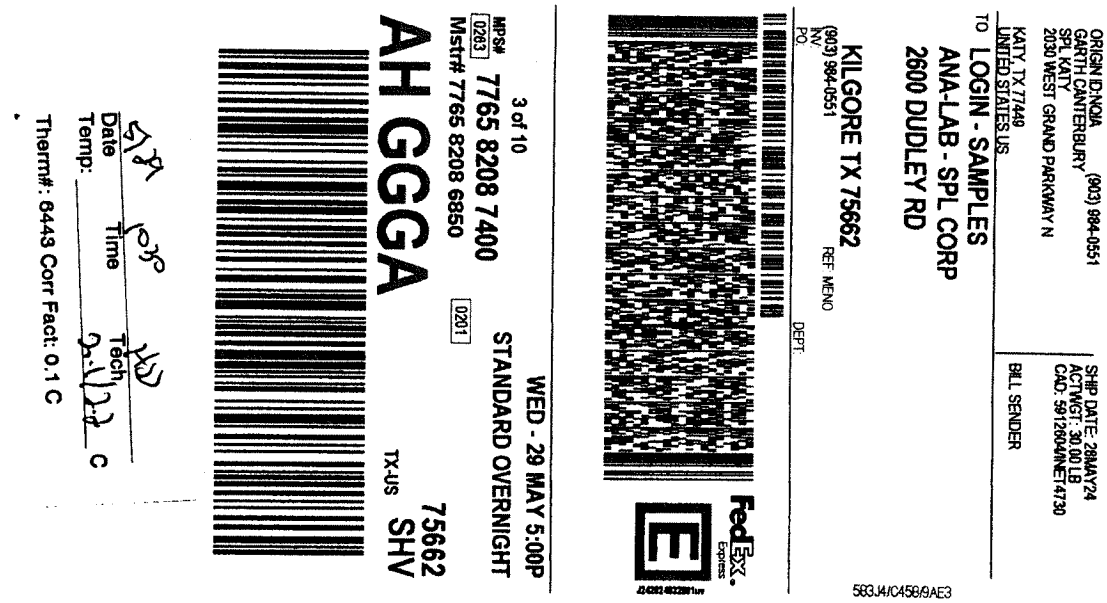
FEDEX

5-29-24 1030

DChatwood SPL

5/29/24 1030

1104764 CoC Print Group 001 of 001



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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331
(936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375
(936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: WJML
Address:
mhl
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): Justin Marin
Sampler's Signature:
Project Name: North Ampton

INVOICE TO:

Company:
Address: SAME
Attn:
Phone#:

Remarks: Short Permit Renewal

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED
5934	Ett	5/24/23	0800	ww	G	6.7	7.6	0	.665	27.0	11	3/4/5	P/G		
5934	Ett	5/24/23	0800	ww	G						6	8	G		

Relinquished By: JM
Received By: Christopher Sydnor
Date 5/24/23 Time 0950
Received Iced: YES / NO

Relinquished By:
Received By:
Date Time
Received Iced: YES / NO

Relinquished By: Christopher Sydnor
Received By and/or Checked in By:
Date 5/24/23 Time 1053
Received Iced: YES / NO

LAB USE ONLY

Alternate Check In:
Sample Condition Acceptable: (YES) NO
Date Time
Temp °C: 4.1
*Therm ID: 15
Logged In By:
Date: 5-24-23 Time: 1330

*Thermometer has 0.0 factor and recorded temperature is actual temperature

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331
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P.O. Box 631375 * Nacogdoches, TX 75963-1375
(936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: WDMC
Address:
nwla
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): Justin Martin
Sampler's Signature:
Project Name: North Hampton

INVOICE TO:

Company:
Address: SAME
Attn:
Phone#:

Remarks: Long Perm't Renewal

INSTRUCTIONS:

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Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

ANALYSIS REQUESTED

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres
5934	Eff	5/24/23	0800	WW	G	6.7	7.6	0	.665	27.0	10	3/4L	P/G	

Relinquished By: JM
Received By: Christopher Sydnor
Date 5/24/23 Time 0950
Received Iced: YES / NO

Relinquished By:
Received By:
Date Time
Received Iced: YES / NO

Relinquished By: Christopher Sydnor
Received By and/or Checked in By:
Date 5-24-2023 Time 1053
Received Iced: YES / NO

LAB USE ONLY
Alternate Check In:
Sample Condition Acceptable: (YES) / NO
Date Time
Temp °C: 4.1
*Therm ID: 15
Logged In By:
Date 5-24-23 Time 1330

*Thermometer has 0.0 factor and recorded temperature is actual temperature

EASTEX
ENVIRONMENTAL LABS INC.

NELAP ACCREDITED TNI LABORATORY

08 August 2024

Water District Management
NorthAmpton
P.O. Box 579
Spring, TX 77383

RE: NorthAmpton Effluent PR

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 16:30, with Lab ID Number C4G8855. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

LABORATORY ANALYTICAL REPORT

Project: NorthAmpton Effluent PR
Sample Matrix: Water
Client Matrix: Water

Sample Date and Time: 07/23/2024 11:45
Collector: PU
Sample Type:Grab
Print Date: 8/8/2024

Effluent Grab

C4G8855-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Chlorine	<0.1	0.1	mg/L	N	B4G3440	07/23/2024 14:38	SM 4500 Cl F	
E coli IDEXX	1	1	mpn/100ml	A	B4G3614	07/23/2024 16:48	Colilert 18	

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

EASTEX
ENVIRONMENTAL LABS INC.

NorthAmpton
P.O. Box 579
Spring TX, 77383

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

Colilert 18 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4G3614 - No Prep Micro										
Blank (B4G3614-BLK1)				**Prepared & Analyzed:** 7/23/2024 4:48:00PM						
E coli IDEXX	ND	1	mpn/100ml							
Duplicate (B4G3614-DUP1)		**Source: C4G7617-01**		**Prepared & Analyzed:** 7/23/2024 4:48:00PM						
E coli IDEXX	ND	10	mpn/100ml		ND				200	

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

NorthAmpton
P.O. Box 579
Spring TX, 77383

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

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

SPL
The Science of Sure

1
2
3
4

SAMPLE CROSS REFERENCE

Project
1112216

Printed 8/6/2024 Page 1 of 1
CUG8855

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Sample	Sample ID	Taken	Time	Received
2320139	*NorthAmpton Effluent PR Efflue*	07/23/2024	00:00:00	07/26/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Prepared Bottle: 2 mL Autosampler Vial (Batch 1131029) Volume: 5.00000 mL <== Derived from 01 (937 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 604.1	03	1131029	07/30/2024	1131594	08/01/2024

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

SPL
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EEL3-G

Project
1112216

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Printed: 08/06/2024

CC08855

RESULTS

Sample Results

2320139 NorthAmpton Effluent PR Efflue COMP Received: 07/26/2024

Non-Potable Water Collected by: Client Eastex Environmental PO: 072524B

Composite Stop 00:00 7 23 24 Taken: 07/23/2024 00:00:00

Prepared: 07/30 2024 08:28:05 Calculated 07/30 2024 08:28:05 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
2	**Organics Short Hold Surcharge**	**Verified**					

EPA 604.1 Prepared: 1131029 07/30 2024 14:00:00 Analyzed 1131594 08/01 2024 21:12:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
7	**Hexachlorophene**	**<2.67**	**ug/L**	2.67		**70-30-4**	03

Sample Preparation

2320139 NorthAmpton Effluent PR Efflue COMP Received: 07/26/2024

072524B

Composite Stop 00:00 7 23 24 07/23/2024

Prepared: 07/29 2024 11:34:44 Calculated 07/29 2024 11:34:44 CAL

2	**Environmental Fee (per Project)**	**Verified**					

EPA 604.1 Prepared: 1131029 07/30 2024 14:00:00 Analyzed 1131029 07/30 2024 14:00:00 MCC

	Hexachlorophene Extraction	**5/937**	**ml**				01

EPA 604.1 Prepared: 1131029 07/30 2024 14:00:00 Analyzed 1131594 08/01 2024 21:12:00 BRU

	Hexachlorophene Expansion	**Entered**				**70-30-4**	03

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

SPL
The Science of Sure

EEL3-G

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Project
1112216

Printed: 08/06/2024

Qualifiers:

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

SPL
The Science of Sure

EEL3-G

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Project
1112216

Printed 08/06/2024

Analytical Set 1131594

EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1131029	ND	0.890	2.50	ug/L	126621694

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	5430	5000	ug/L	109	70.0 - 130	126621693
Hexachlorophene	5670	5000	ug/L	113	70.0 - 130	126621697
Hexachlorophene	5560	5000	ug/L	111	70.0 - 130	126621701

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1131029	39.4	33.0	50.0	25.5 - 145	78.8	66.0	ug/L	17.7	50.0

* 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.)

1112216 CoC Print Group 001 of 001

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www.eastexlabs.com

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Pink Copy-Client Copy

REPORT TO:

Company:
Address:
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print):
Sampler's Signature:
Project Name:

INVOICE TO:

Company:
Address: SAME
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

ANALYSIS REQUESTED

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres
1131				WW	C						1	8	G	
↓ 1140				WW	C						1	8	G	

Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Darth Cutley 7/25/24 17:00 Received By: FED EX Date 7/25/24 Time 17:00 Received Iced: YES / NO
Relinquished By: FEDEX 7/26/24 1030 Received By and/or Checked in By: MCGan Date 7/26/24 Time 1030 Received Iced: YES / NO

LAB USE ONLY	Sample Condition Acceptable: YES / NO	Temp °C	*Therm ID	Logged In By:	Date	Time
Alternate Check In:	Date Time					

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Chain of Custody Revision 3: 05/01/18

Eastex Environmental Laboratory, Inc.

ORIGIN ID:NQIA (713) 882-4654
SPL KATY
SOUTHERN PETROLEUM LABORATORIE
2030 W GRAND PARKWAY N

KATY, TX 77449
UNITED STATES US

SHIP DATE: 25JUL24
ACTWGT: 40.00 LB
CAD: 259314957/INET4730
DIMS: 24x16x14 IN

BILL SENDER

TO LOGINCORP
ANA-LAB COPORATION
2600 DUDLEY RD

KILGORE TX 75663
(903) 984-0551

REF:
INV:
PO:
DEPT:

5933A3E0E49AE3

FedEx Express

FedEx Ship Manager - Print Your Label(s)

FRI - 26 JUL 5:00P
STANDARD OVERNIGHT

TRK# 0201 7776 1438 4910

AH GGGA

75663
TX-US SHV

7/25/24, 3:25 PM

7/26 1030 HJ
Date Time Tech
Temp: 0.9 0.7 C

Therm#: 6443 Corr Fact: -0.2 C

1112216 CoC Print Group 001 of 001

SUBCONTRACT ORDER

Sending Laboratory:

Eastex Environmental Laboratory - Coldspring
PO Box 1089
Coldspring, TX 77331

Phone: 936-653-3249
eastexlab@eastex.net
Project Manager: Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Ana Lab/SPL Inc
PO BOX 3275
Kilgore, TX 75663

Phone: (903) 984-0551
Fax:

DB 7/24

PO 072524B

Requested Turnaround 3 Days

Sample ID: NorthAmpton Effluent PR Effluent Comp 00:00 **Sample No: C4G8855-01** ***Water*** **Sampled: 07/23/2024**

Containers Supplied: 2

Special Instructions: HEXACHLOROPHENE

☐ **See Attached**

Received Iced Y/N Temp:_____

NorthAmpton

Released By _____ Date & Time _____

Received By _____ Date & Time _____

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331 (936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375 (936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: WDM
Address:
Attn: On File
Phone#:
Email:
P.O. #:
Sampler's Name (print): P/U & Alexis Morey
Sampler's Signature:
Project Name: Northampton

INVOICE TO:

Company:
Address: SAME
Attn:
Phone#:

Remarks:

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Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED: E. coli	hexachlorophene
P/U	EFF	7/23/24	1145	WW	G			0.07			1	L	PS	CST	X	
C4G8855	EFF	7/23/24	1438	WW	G						2	3	G	C		X

Relinquished By:
Received By:
Date 7/23/2024 Time 1445 Received Iced: YES / NO

Relinquished By:
Received By:
Date Time Received Iced: YES / NO

Relinquished By:
Received By and/or Checked in By:
Date 7/23/2024 Time 1630 Received Iced: YES / NO

LAB USE ONLY Sample Condition Acceptable: YES / NO
Alternate Check In: Date Time
Temp °C: 1.5 *Therm ID: 15 Logged In By: Date: 7-23-24 Time: 2054

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Northampton MUD – TPDES Renewal
Plain Language Summary

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

Northampton Municipal Utility District (CN600623995) operates the Northampton MUD Wastewater Treatment Facility (RN102845989), an activated sludge process plant operated in the single stage nitrification mode. The facility is located approximately 1,100 feet west of the intersection of Gosling Road and Dovershire Drive, about 6 miles northwest of Spring, Harris County, 77389.

This application is for a renewal to discharge at an annual average flow of 1,850,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7, Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, aeration basins, final clarifiers, sludge digesters, and chlorine contact chambers.

Spanish Translation

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 exige 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 federal. representaciones ejecutables de la solicitud de permiso.

El Distrito Municipal de Servicios Públicos de Northampton (CN600623995) opera la Instalación de Tratamiento de Aguas Residuales MUD de Northampton (RN102845989), una planta de proceso de lodos activados que opera en el modo de nitrificación de una sola etapa. La instalación está ubicada aproximadamente a 1,100 pies al oeste de la intersección de Gosling Road y Dovershire Drive, a unas 6 millas al noroeste de Spring, Condado de Harris, 77389.

Esta solicitud es para una renovación para descargar a un flujo promedio anual de 1,850,000 galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco (5) días, sólidos suspendidos totales (TSS) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7, Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstico 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas mediante una planta de

proceso de lodos activados y las unidades de tratamiento incluyen criba de barras, balsas de aireación, clarificadores finales, digestores de lodos y cámaras de contacto de cloro.

ATTACHMENT C

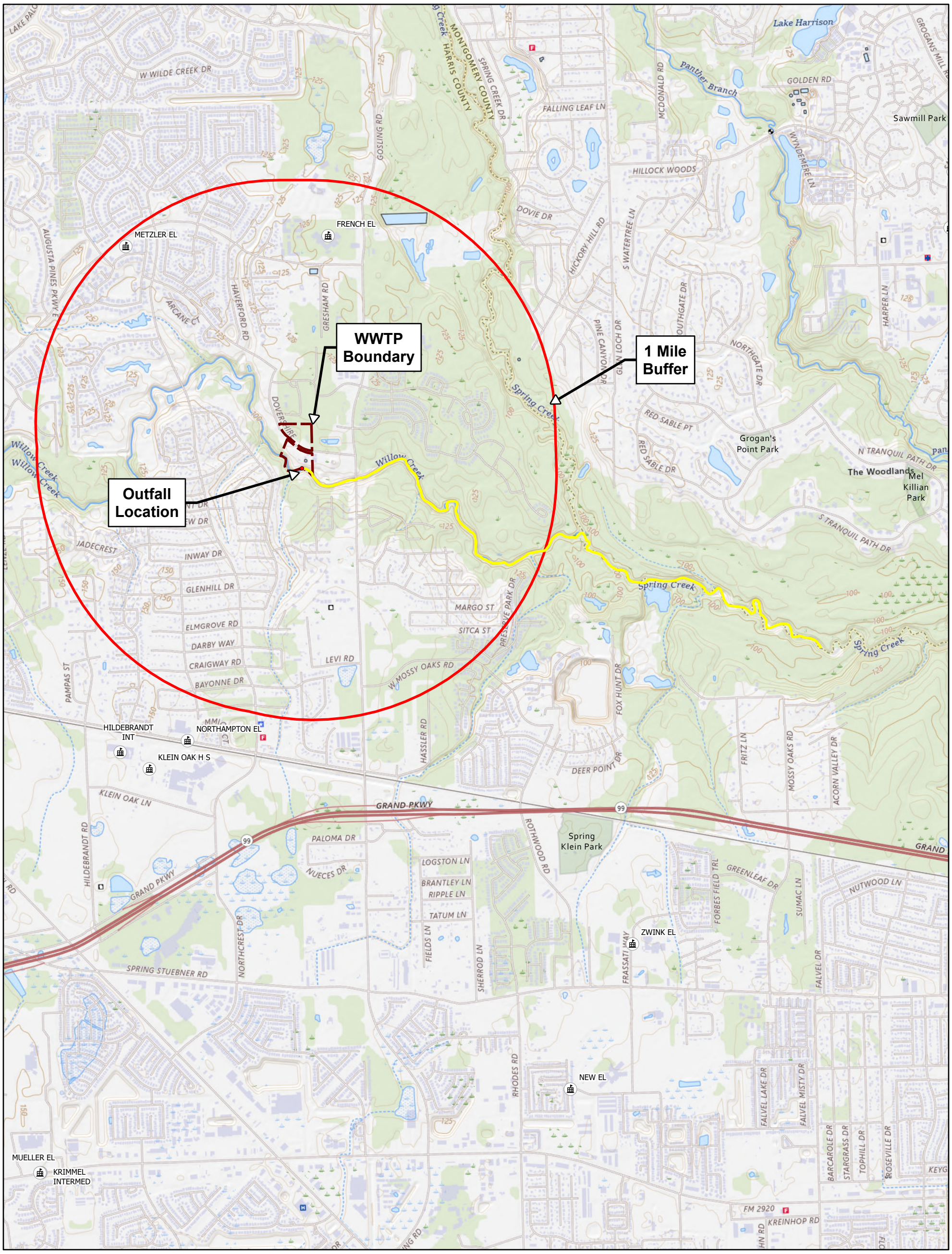
USGS MAPS

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

USGS MAP



VICINITY MAP

1 INCH = 10 MILES

NORTHAMPTON MUD

HARRIS COUNTY, TEXAS

N
W E
S

0 2,000

1 INCH = 2,000 FEET

LEGEND

- Outfall
- Discharge Route
- WWTP Boundary
- 1 Mile Buffer
- 5 Mile Buffer
- Schools within 5 miles of WWTP
- National park or forest
- State park or forest
- Regional park
- County park
- Local park

QUIDDITY

Texas Board of Professional Engineers Registration No. F-23290

Path: V:\Practice Workspace\Corporate Services\GIS\Projects\0_USGS Maps\Northampton MUD\Northampton USGS.aprx Project Number: 00090-0262-01.001 Date: 6/13/2024 User Name: ahinkle

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: Northampton Municipal Utility District

   Permit No. WQ00 10910001 EPA ID No. TX 0058/548

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

   Approximately 1,100 feet west of the intersection of Gosling Road and Dovershire Drive, about 6 miles northwest of Spring, Harris 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: Jonathan Nguyen

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

Title: Permit Specialist

Mailing Address: 3100 Alvin Devane Blvd., Suite 150

City, State, Zip Code: Austin, TX 78741

Phone No.: 512-441-9493 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: jnguyen@quiddity.com

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

The property owner is the permittee

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.

To Willow Creek; thence to Spring Creek in Segment No. 1008

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):

No caves or karst features will be disturbed

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

Existing land use is for 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:

Click here to enter text.

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

Click here to enter text.

The following attachments are not needed for the Northampton MUD WWTP TPDES Permit Renewal:

Buffer Zone Map

Water Ballance

ATTACHMENT D

APPLICATION TECHNICAL REPORTS

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

QUIDDITY
Texas Board of Professional Engineers and Land Surveyors Registration Nos. F-23290 & 10046100
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337

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): 1.40

2-Hr Peak Flow (MGD): 5.6

Estimated construction start date: -------

Estimated waste disposal start date: -------

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): 1.85

2-Hr Peak Flow (MGD): 7.40

Estimated construction start date: 8/2025

Estimated waste disposal start date: 8/2027

D. Current Operating Phase

Provide the startup date of the facility: 4/2016

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 G

B. Treatment Units

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

Table 1.0(1) - Treatment Units

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

C. Process Flow Diagram

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

Attachment: See Attachment E

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

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

- Latitude: 30.115133
- Longitude: -95.510478

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 F

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

The wastewater treatment plant serves Northampton MUD, Oakmont PUD, and an intermediate school and high school in Klein ISD

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
Northampton	**Northampton MUD**	**Publicly Owned**	**6,148**
Oakmont	**Oakmont PUD**	**Publicly Owned**	**2,915**
		Choose an item.	
		Choose an item.	

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**.

The 1.85 MGD phase is currently being designed and construction will begin next year.

Section 5. Closure Plans (Instructions Page 45)

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.

N/A

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: April 9, 2014

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**.

Plans and specifications for the 1.85 MGD phase will be submitted prior to construction.

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.

Evidence of restrictive easement will be submitted prior to construction of the 1.85 MGD phase.

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.

N/A

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

N/A

E. 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 AE86 or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. *Conditional exclusion*

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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

6. ***Request for coverage in individual permit***

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

☐ Yes ☐ No

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

Click to enter text.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☒ Yes ☐ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
See Attachment H

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 the 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.

N/A

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	3.4	3.4	1	Grab	5/24/24 08:00
Total Suspended Solids, mg/l	2.4	2.4	1	Grab	5/24/24 08:00
Ammonia Nitrogen, mg/l	<0.1	<0.1	1	Grab	5/24/24 08:00
Nitrate Nitrogen, mg/l	20.4	20.4	1	Grab	5/24/24 08:00

Total Kjeldahl Nitrogen, mg/l	2.0	2.0	1	Grab	5/24/24 08:00
Sulfate, mg/l	60.7	60.7	1	Grab	5/24/24 08:00
Chloride, mg/l	133	133	1	Grab	5/24/24 08:00
Total Phosphorus, mg/l	6.1	6.1	1	Grab	5/24/24 08:00
pH, standard units	7.6	7.6	1	Grab	5/24/24 08:00
Dissolved Oxygen*, mg/l	6.7	6.7	1	Grab	5/24/24 08:00
Chlorine Residual, mg/l	<0.1	<0.1	1	Grab	7/23/24 11:45
E.coli (CFU/100ml) freshwater	1	1	1	Grab	7/23/24 11:45
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	875	875	1	Grab	5/24/24 08:00
Electrical Conductivity, µmohs/cm, †	1252	1252	1	Grab	5/24/24 08:00
Oil & Grease, mg/l	<5.1	<5.1	1	Grab	5/24/24 08:00
Alkalinity ($CaCO_3$)*, mg/l	226	226	1	Grab	5/24/24 08:00

*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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Jim Ferguson

Facility Operator's License Classification and Level: A

Facility Operator's License Number: WW0048855

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: Click to enter text.

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
Agricultural Land Application	Off-site Third-Party Handler or Preparer	Bulk	150.63	Class B: PSRP Aerobic Digestion	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): Click to enter text.

D. Disposal site

Disposal site name: EverGro Organic Recycling

TCEQ permit or registration number: TXL005028

County where disposal site is located: Harris

E. Transportation method

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

Name of the hauler: Manga Flow Environmental

Hauler registration number: 21484

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:

Reclaimed Water – R10910001

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: Click to enter text.

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: Dr. E.C. Thomas

Title: President

Signature: _____

Date: _____

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: Willow Creek

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.

Spring Creek

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.

N/A

E. Normal dry weather characteristics

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

The water in the stream is clear. No aquatic life is present

Date and time of observation: 7/6/24 8:00 am

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
☒ Urban runoff
☒ Upstream discharges
☐ Agricultural runoff
☐ Septic tanks
☐ 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: 5/24/2024 08:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50.0	<50.0	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	17.0	17.0	1	2.5
Anthracene	<1.02	<1.02	1	10
Antimony	<2.0	<2.0	1	5
Arsenic	0.966	0.966	1	0.5
Barium	54.8	54.8	1	3
Benzene	<10.0	<10.0	1	10
Benzidine	<20.3	<20.3	1	50
Benzo(a)anthracene	<1.02	<1.02	1	5
Benzo(a)pyrene	<1.02	<1.02	1	5
Bis(2-chloroethyl)ether	<1.02	<1.02	1	10
Bis(2-ethylhexyl)phthalate	<7.62	<7.62	1	10
Bromodichloromethane	18.7	18.7	1	10
Bromoform	<10.0	<10.0	1	10
Cadmium	<1.0	<1.0	1	1
Carbon Tetrachloride	<2.0	<2.0	1	2
Carbaryl	<2.55	<2.55	1	5
Chlordane*	<0.0102	<0.0102	1	0.2
Chlorobenzene	<10.0	<10.0	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	<10.0	<10.0	1	10
Chloroform	28.5	28.5	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<1.0	<1.0	1	3
Chromium (Tri) **(*1)**	<3.0	<3.0	1	N/A
Chromium (Hex)	<3.0	<3.0	1	3
Copper	4.87	4.87	1	2
Chrysene	<1.02	<1.02	1	5
p-Chloro-m-Cresol	<2.44	<2.44	1	10
4,6-Dinitro-o-Cresol	<8.13	<8.13	1	50
p-Cresol	<6.3	<6.3	1	10
Cyanide **(*2)**	3.4	3.4	1	10
4,4'- DDD	<0.0102	<0.0102	1	0.1
4,4'- DDE	<0.0102	<0.0102	1	0.1
4,4'- DDT	<0.0102	<0.0102	1	0.02
2,4-D	<0.524	<0.524	1	0.7
Demeton (O and S)	<0.0511	<0.0511	1	0.20
Diazinon	<0.0511	<0.0511	1	0.5/0.1
1,2-Dibromoethane	<10.0	<10.0	1	10
m-Dichlorobenzene	<1.02	<1.02	1	10
o-Dichlorobenzene	<1.02	<1.02	1	10
p-Dichlorobenzene	<1.02	<1.02	1	10
3,3'-Dichlorobenzidine	<5.0	<5.0	1	5
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10
Dichloromethane	<10.0	<10.0	1	20
1,2-Dichloropropane	<10.0	<10.0	1	10
1,3-Dichloropropene	<10.0	<10.0	1	10
Dicofol	<0.102	<0.102	1	1
Dieldrin	<0.0102	<0.0102	1	0.02
2,4-Dimethylphenol	<2.44	<2.44	1	10
Di-n-Butyl Phthalate	<7.62	<7.62	1	10
Diuron	<0.046	<0.046	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.0102	<0.0102	1	0.02
Endosulfan Sulfate	<0.0102	<0.0102	1	0.1
Endrin	<0.0102	<0.0102	1	0.02
Ethylbenzene	<10.0	<10.0	1	10
Fluoride	938	938	1	500
Guthion	<0.0511	<0.0511	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<1.02	<1.02	1	5
Hexachlorobutadiene	<1.02	<1.02	1	10
Hexachlorocyclohexane (alpha)	<0.0102	<0.0102	1	0.05
Hexachlorocyclohexane (beta)	<0.0102	<0.0102	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0102	<0.0102	1	0.05
Hexachlorocyclopentadiene	<9.15	<9.15	1	10
Hexachloroethane	<1.02	<1.02	1	20
Hexachlorophene	<2.67	<2.67	1	10
Lead	<0.5	<0.5	1	0.5
Malathion	0.0441	0.0441	1	0.1
Mercury	0.00474	0.00474	1	0.005
Methoxychlor	<0.0102	<0.0102	1	2
Methyl Ethyl Ketone	<50.0	<50.0	1	50
Mirex	<0.0153	<0.0153	1	0.02
Nickel	<2.0	<2.0	1	2
Nitrate-Nitrogen	19000	19000	1	100
Nitrobenzene	<1.02	<1.02	1	10
N-Nitrosodiethylamine	<1.02	<1.02	1	20
N-Nitroso-di-n-Butylamine	<1.02	<1.02	1	20
Nonylphenol	<30.1	<30.1	1	333
Parathion (ethyl)	<0.0511	<0.0511	1	0.1
Pentachlorobenzene	<1.02	<1.02	1	20
Pentachlorophenol	<1.02	<1.02	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<1.02	<1.02	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	< 0.2	< 0.2	7	0.2
Pyridine	<5.49	<5.49	1	20
Selenium	<2.0	<2.0	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.02	<1.02	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10.0	<10.0	1	10
Toxaphene	<0.204	<0.204	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
2,4,5-Trichlorophenol	<1.02	<1.02	1	50
TTHM (Total Trihalomethanes)	55.2	55.2	1	10
Vinyl Chloride	<10.0	<10.0	1	10
Zinc	23.8	23.8	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☐

Date and time sample(s) collected: 5/24/2024 08:00

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	<2.0	<2.0	1	5
Arsenic	0.966	0.966	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<1.0	<1.0	1	1
Chromium (Total)	<1.0	<1.0	1	3
Chromium (Hex)	<3.0	<3.0	1	3
Chromium (Tri) **(*1)**	<3.0	<3.0	1	N/A
Copper	4.87	4.87	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	0.00474	0.00474	1	0.005
Nickel	<2.0	<2.0	1	2
Selenium	<2.0	<2.0	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	23.8	23.8	1	5
Cyanide **(*2)**	3.4	3.4	1	10
Phenols, Total	<1.52	<1.52	1	10

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

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

Table 4.0(2)B – Volatile Compounds

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	<50.0	<50.0	1	50
Benzene	<10.0	<10.0	1	10
Bromoform	<10.0	<10.0		10
Carbon Tetrachloride	<2.0	<2.0	1	2
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	<10.0	<10.0	1	10
Chloroethane	<50.0	<50.0	1	50
2-Chloroethylvinyl Ether	<10.0	<10.0	1	10
Chloroform	28.5	28.5	1	10
Dichlorobromomethane [Bromodichloromethane]	18.7	18.7	1	10
1,1-Dichloroethane	<10.0	<10.0	1	10
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10
1,2-Dichloropropane	<10.0	<10.0	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	<10.0	<10.0	1	10
Methyl Bromide	<50.0	<50.0	1	50
Methyl Chloride	<50.0	<50.0	1	50
Methylene Chloride	<10.0	<10.0	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Toluene	<10.0	<10.0	1	10
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
Vinyl Chloride	<10.0	<10.0	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	<1.02	<1.02	1	10
2,4-Dichlorophenol	<1.02	<1.02	1	10
2,4-Dimethylphenol	<2.44	<2.44	1	10
4,6-Dinitro-o-Cresol	<8.13	<8.13	1	50
2,4-Dinitrophenol	<9.15	<9.15	1	50
2-Nitrophenol	<1.02	<1.02	1	20
4-Nitrophenol	<1.02	<1.02	1	50
P-Chloro-m-Cresol	<2.44	<2.44	1	10
Pentalchlorophenol	<1.02	<1.02	1	5
Phenol	<1.52	<1.52	1	10
2,4,6-Trichlorophenol	<1.02	<1.02	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	<1.02	<1.02	1	10
Acenaphthylene	<1.02	<1.02	1	10
Anthracene	<1.02	<1.02	1	10
Benzidine	<20.3	<20.3	1	50
Benzo(a)Anthracene	<1.02	<1.02	1	5
Benzo(a)Pyrene	<1.02	<1.02	1	5
3,4-Benzofluoranthene	<1.02	<1.02	1	10
Benzo(ghi)Perylene	<1.02	<1.02	1	20
Benzo(k)Fluoranthene	<1.02	<1.02	1	5
Bis(2-Chloroethoxy)Methane	<1.02	<1.02	1	10
Bis(2-Chloroethyl)Ether	<1.02	<1.02	1	10
Bis(2-Chloroisopropyl)Ether	<1.02	<1.02	1	10
Bis(2-Ethylhexyl)Phthalate	<7.62	<7.62	1	10
4-Bromophenyl Phenyl Ether	<1.02	<1.02	1	10
Butyl benzyl Phthalate	<7.62	<7.62	1	10
2-Chloronaphthalene	<1.02	<1.02	1	10
4-Chlorophenyl phenyl ether	<1.02	<1.02	1	10
Chrysene	<1.02	<1.02	1	5
Dibenzo(a,h)Anthracene	<1.02	<1.02	1	5
1,2-(o)Dichlorobenzene	<1.02	<1.02	1	10
1,3-(m)Dichlorobenzene	<1.02	<1.02	1	10
1,4-(p)Dichlorobenzene	<1.02	<1.02	1	10
3,3-Dichlorobenzidine	<5.0	<5.0	1	5
Diethyl Phthalate	<5.79	<5.79	1	10
Dimethyl Phthalate	<4.88	<4.88	1	10
Di-n-Butyl Phthalate	<7.62	<7.62	1	10
2,4-Dinitrotoluene	<3.56	<3.56	1	10
2,6-Dinitrotoluene	<1.02	<1.02	1	10
Di-n-Octyl Phthalate	<1.02	<1.02	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.02	<1.02	1	20
Fluoranthene	<1.02	<1.02	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<1.02	<1.02	1	10
Hexachlorobenzene	<1.02	<1.02	1	5
Hexachlorobutadiene	<1.02	<1.02	1	10
Hexachlorocyclo-pentadiene	<9.15	<9.15	1	10
Hexachloroethane	<1.02	<1.02	1	20
Indeno(1,2,3-cd)pyrene	<1.02	<1.02	1	5
Isophorone	<1.02	<1.02	1	10
Naphthalene	<1.02	<1.02	1	10
Nitrobenzene	<1.02	<1.02	1	10
N-Nitrosodimethylamine	<1.02	<1.02	1	50
N-Nitrosodi-n-Propylamine	<1.02	<1.02	1	20
N-Nitrosodiphenylamine	<1.02	<1.02	1	20
Phenanthrene	<1.02	<1.02	1	10
Pyrene	<1.02	<1.02	1	10
1,2,4-Trichlorobenzene	<1.02	<1.02	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	<0.01	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0102	<0.0102	1	0.05
Chlordane	<0.0102	<0.0102	1	0.2
4,4-DDT	<0.0102	<0.0102	1	0.02
4,4-DDE	<0.0102	<0.0102	1	0.1
4,4,-DDD	<0.0102	<0.0102	1	0.1
Dieldrin	<0.0102	<0.0102	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.0102	<0.0102	1	0.02
Endosulfan Sulfate	<0.0102	<0.0102	1	0.1
Endrin	<0.0102	<0.0102	1	0.02
Endrin Aldehyde	<0.0102	<0.0102	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.204	<0.204	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.

Click to enter text.

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: 41

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

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: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

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.

Click to enter text.

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.

Click to enter text.

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.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

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.

Click to enter text.

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

A. General information

Company Name: No Significant Industrial Users

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).

N/A

C. Product and service information

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

N/A

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

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.

N/A

ATTACHMENT G

TREATMENT UNITS AND PROCESSES

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

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NORTHAMPTON MUNICIPAL UTILITY DISTRICT
TREATMENT UNIT VOLUMES
WASTEWATER TREATMENT PLANT
(For Item 3 of Technical Report 1.0)

The Northampton Municipal Utility District Wastewater Treatment Plant currently operates in the 1.40 MGD phase. The facility is comprised of two hydraulically connected on-site lift stations, an elevated headworks with a mechanical bar screen, a mechanical step screen, a manual bar screen, and an emergency overflow channel, an anoxic selector basin, four (4) aeration basins, three (3) secondary clarifiers, four (4) aerobic digesters, two (2) chlorine contact basins, and an on-site effluent pump station. These facilities are split proportionately between a 0.95 MGD train and a 0.45 MGD train, henceforth referred to as Train 1 and Train 2. Train 1 is located at the south plant site and Train 2 is located at the north plant site.

The ultimate phase facilities will treat 1.85 MGD and will operate as a suspended growth activated sludge process in a single stage nitrification mode. This phase will consist of constructing an additional 0.45 MGD treatment train (Train 3) at the north plant site. Train 3 will consist of an aeration basin, secondary clarifier, chlorine contact basin, multi-stage aerobic digester, and blowers. Flow will be pumped from the existing on-site lift stations to the existing elevated headworks, where, after screening, will be split into two (2) screened influent lines. The two (2) screened influent lines will carry flow to south plant site and north plant site. After flow is split between the two (2) plants, the influent at the north plant will be mixed with return activated sludge to create mixed liquor and will flow through aeration basins. The south plant will mix the influent with return activated sludge in the existing mixing basin prior to entering the aeration basins. Then at both plants the flow will pass through the aeration basins operated in the single-stage nitrification mode to consume organics and breakdown ammonia. From the aeration basins, the mixed liquor will flow to the secondary clarifiers for clarification. After clarification, the clarified effluent will flow to the chlorine contact basins for disinfection. The waste activated sludge will be airlifted to the digesters and sludge holding tanks, where sludge will be stabilized prior to liquid hauling. After treatment in the chlorine contact basin, the effluent will be aerated to deliver the requisite dissolved oxygen. The aerated effluent will flow over a weir at the south plant and a flume at the north plant for flow measurement. The chlorinated effluent will flow to the dechlorination basin to remove the residual chlorine and then on to the outfall.

The existing plant phase was originally designed, approved and constructed under TCEQ Ch. 317 and will remain under those rules per the TCEQ Ch. 217 grandfather clause. The second phase of the plant was designed, approved and constructed under TCEQ Ch. 217.

The plant is equipped with design features to prevent overflows or bypassing of untreated wastewater. The existing north plant headworks has a bypass channel to prevent overflows in the event of of a screen blockage. The south plant has a backup diesel generator installed onsite with an automatic transfer switch to provide power to essential equipment in the event of a main power failure, and similarly the north plant has a diesel generator installed onsite with an automatic transfer switch to provide power to essential equipment in the event of a main power failure. The facility also has an automatic telephone

dialer that notifies the operator of equipment failures, chemical leaks, main power failures, and other miscellaneous alarms. The on-site lift station and effluent pump station are both designed with a redundant pump to protect against overflows in the event of a pump failure.

1.40 MGD Phase – Treatment Train No. 1:

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basins	3	67,372 cu. ft.
Final Clarifiers	2	6,637 sq. ft.
Aerobic Digesters	2	42,582 cu. ft.
Chlorine Contact Chamber	1	11,883 cu. ft.
Dechlorination chamber	1	255 cu. ft.

1.40 MGD Phase – Treatment Train No. 2:

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Basin	1	32,400 cu. ft.
Final Clarifier	1	1,590 sq. ft.
Aerobic Digesters	2	28,188 cu. ft.
Chlorine Contact Chamber	1	4,739 cu. ft.

1.85 MGD Phase - Treatment Train No. 1

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration basin No. 2	3	67,372 cu. ft.
Clarifier No. 1	2	6,637 sq. ft.
Aerobic Digesters	2	42,582 cu. ft.
Bleach mixing chamber	1	734 ft3
Chlorine contact basin	1	11,883 cu. ft.
Dechlorination basin	1	255 ft3

1.85 MGD Phase –Treatment Trains No. 2 and 3

Treatment Unit Type	Number of Units	Volume or surface area
Influent mixing basin	2	3,168 cu.ft.
Aeration basin	2	160,832 cu.ft.
Clarifier	1	1,590 sq. ft.
Chlorine contact basin	2	9,562 cu. ft.
Digester basin	4	112,752 cu.ft.

ATTACHMENT E

FLOW SCHEMATICS

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

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Air
Anoxic Basin
Aeration Basin
Clarifier
NaClO
Chlorine Contact Basin
Air
NaHSO$_3$
Dechlorination
1st Stage Aerobic Digester
Air
2nd Stage Aerobic Digester
Air
Wet Haul Digested Sludge
RAS
WAS
Waste Activated Sludge (WAS) / Return Activated Sludge (RAS)
Supernatant
Exist Headworks (Mechanical Screen)
Raw Sewage
Lift Station
WAS
RAS
Influent Channel
Aeration Basin
Air
Aeration Basin
Air
Aeration Basin
Air
Effluent Channel
Air
Final Clarifier
NaClO
Chlorination Basin
Air
Dechlorination Basin
Effluent Pump Station
OUTFALL TO H.C.F.C.D. UNIT No. M100-00-000 (WILLOW CREEK)
NaClO
NaHSO$_3$
Final Clarifier
RAS/WAS
Supernatant
1st Stage Aerobic Digester
Air
WAS
2nd Stage Aerobic Digester
Air
Wet Haul Digested Sludge

LEGEND

Internal Recycle Pump

Mechanical Pump

FLOW SCHEMATIC
NORTHAMPTON MUNICIPAL UTILITY DISTRICT
1.4 MGD WASTEWATER TREATMENT PLANT
PERMIT NO. WQ0010910001

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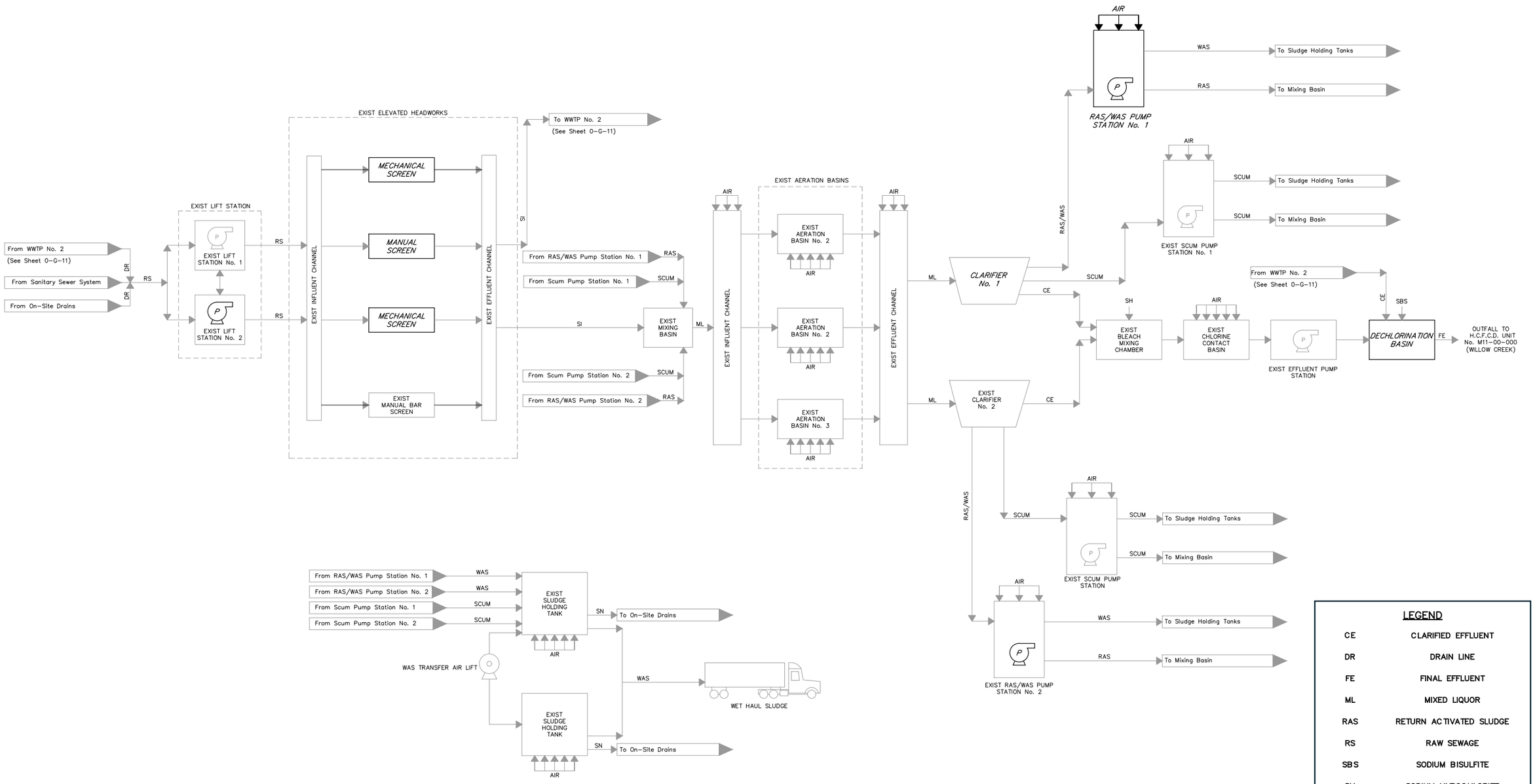
0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



LEGEND	
CE	CLARIFIED EFFLUENT
DR	DRAIN LINE
FE	FINAL EFFLUENT
ML	MIXED LIQUOR
RAS	RETURN ACTIVATED SLUDGE
RS	RAW SEWAGE
SBS	SODIUM BISULFITE
SH	SODIUM HYPOCHLORITE
SI	SCREENED INFLUENT
SN	SUPERNATE
WAS	WASTE ACTIVATED SLUDGE

FLOW SCHEMATIC
NORTHAMPTON MUD WASTEWATER TREATMENT PLANT
1.85 MGD PHASE - TREATMENT TRAIN NO. 1
TPDES PERMIT WQ0010910001

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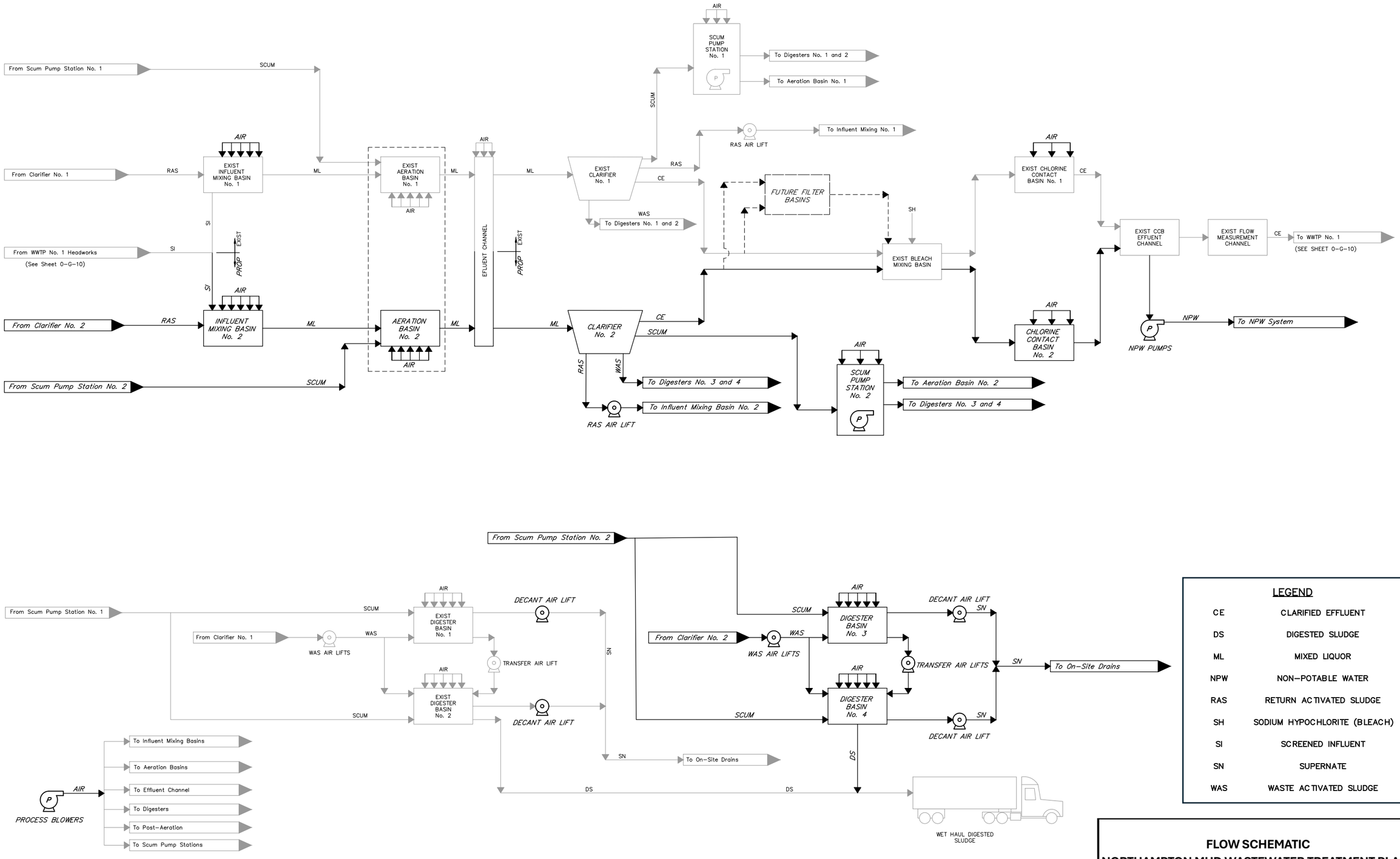

LEGEND	
CE	CLARIFIED EFFLUENT
DS	DIGESTED SLUDGE
ML	MIXED LIQUOR
NPW	NON-POTABLE WATER
RAS	RETURN ACTIVATED SLUDGE
SH	SODIUM HYPOCHLORITE (BLEACH)
SI	SCREENED INFLUENT
SN	SUPERNATE
WAS	WASTE ACTIVATED SLUDGE

FLOW SCHEMATIC
NORTHAMPTON MUD WASTEWATER TREATMENT PLANT
1.85 MGD PHASE – TREATMENT TRAINS NO. 2 AND 3
TPDES PERMIT WQ0010910001

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ATTACHMENT F

SERVICE AREA MAP

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

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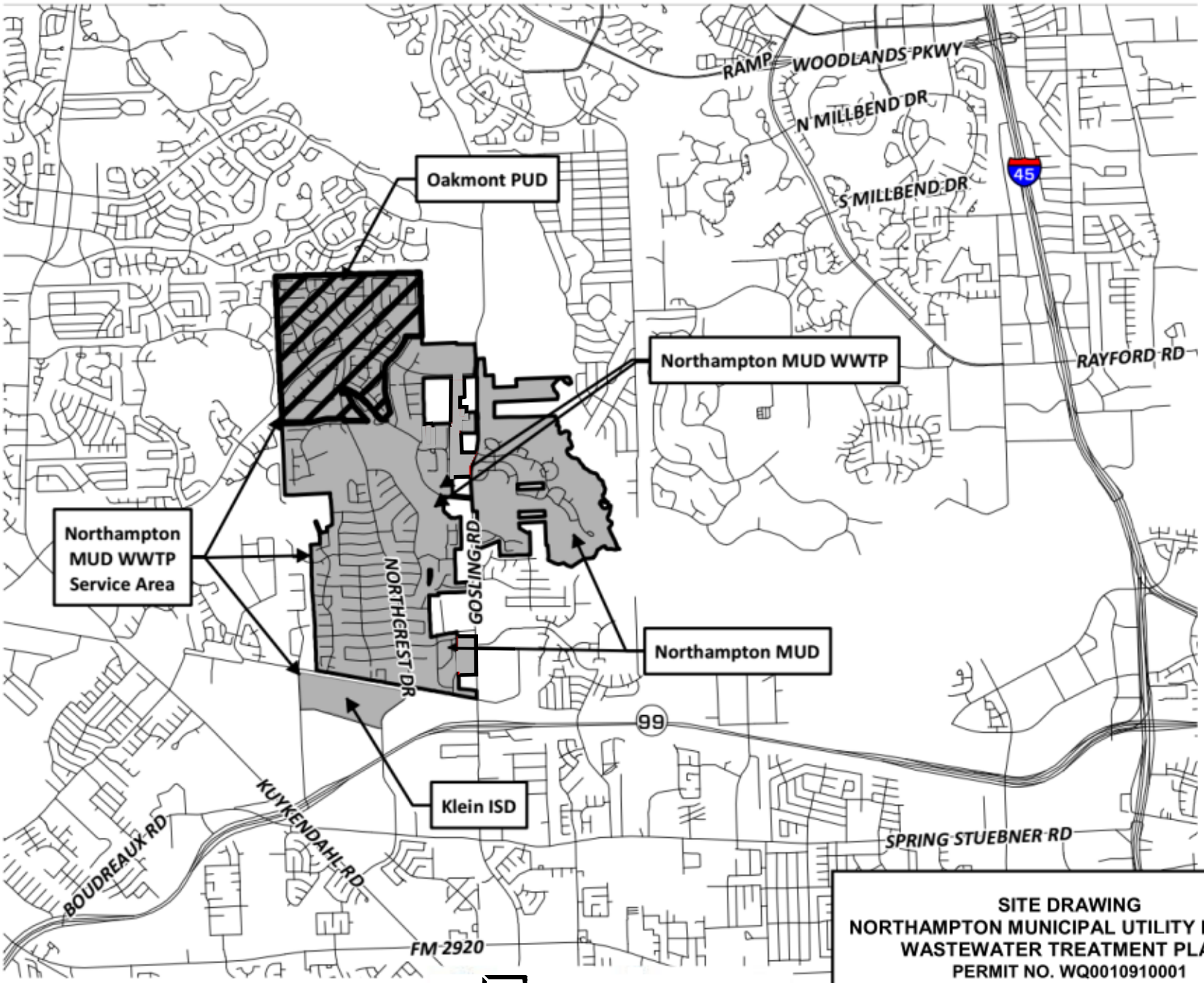

SITE DRAWING
NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT
PERMIT NO. WQ0010910001

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ATTACHMENT H

SEWAGE SLUDGE MANAGEENT PLANS

NORTHAMPTON MUNICIPAL UTILITY DISTRICT
WASTEWATER TREATMENT PLANT

JULY 2024

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www.quiddity.com

SLUDGE MANAGEMENT PLAN
NORTHAMPTON MUNICIPAL UTILITY DISTRICT
TPDES PERMIT RENEWAL

INTRODUCTION

This sludge management and disposal plan is being submitted as an attachment to the TPDES permit renewal application for Northampton Municipal Utility District. The Northampton MUD Wastewater Treatment Plant is a 1.40 MGD single stage nitrification activated sludge plant, with a proposed future phase of 1.85 MGD.

DIMENSIONS AND CAPACITIES

Excess solids generated from the activated plant will be wasted to an aerobic digester for further treatment. The digester has a volume of 70,770 ft^3 in the current phase. The Final phase will have a digester volume of 155,334 ft^3. The dewatered stabilized sludge will then be hauled away to a TCEQ permitted land application site for disposal by a licensed sludge hauler.

SOLIDS GENERATION

Solids to be wasted from the activated sludge process are based on 1.0 pounds of TSS produced per pound of BOD applied. The design influent BOD concentration for the current and final phase is 250 mg/l and 265 mg/l respectively. Following is the amount of solids generated by the wastewater treatment plant at design flow and at 75 percent, 50 percent and 25 percent of design flow:

Interim Phase – 1.40 MGD		
Percent of Design Flow	Flow (MGD)	Solids Generated (lb/day)
25	0.35	730
50	0.70	1460
75	1.05	2189
100	1.4	2919

Final Phase – 1.85 MGD		
Percent of Design Flow	Flow (MGD)	Solids Generated (lb/day)
25	0.46	1022
50	0.93	2044
75	1.39	3067
100	1.85	4089

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OPERATING PARAMETERS

The single stage nitrification activated sludge process works best between mixed liquor suspended solids (MLSS) concentrations of 2,000 – 6,000 mg/l. The operator will determine the mixed liquor concentration that produces the highest quality effluent taking into consideration factors such as hydraulic and organic loading, available air capacity, and solids handling. Field testing and laboratory analysis will be done to monitor the MLSS and maintain the appropriate solids concentration.

SOLIDS REMOVAL PROCEDURE

Laboratory analysis and field testing will be conducted to determine the solids concentration in the aeration basin. To maintain an appropriate solids inventory, the amount of solids to be wasted per day is equal to the amount of solids generated per day. This amount is stated in the SOLIDS GENERATION section of this plan. Excess solids will then be wasted from the bottom of the clarifier directly to the aerobic digester to maintain the appropriate solids concentration in the aeration basin.

SOLIDS REMOVAL SCHEDULE

It is assumed that 70% of the solids wasted to the digester are volatile solids and the volatile solids reduction is 30%. For every pound of solids wasted to the digester, 0.79 pounds of solids will need to be disposed of by land application. In addition, it is assumed that the solids can be thickened to 15,000 mg/l in the digester.

At this concentration, a 70,770 ft^3 digester will hold 66,223 pounds of solids in the current phase. In the Final phase, a 155,334 ft^3 digester will hold 145,353 pounds of solids. The capacity of the digester divided by the pounds per day of solids to be disposed of will give the sludge hauling schedule.

Interim Phase – 1.40 MGD		
Percent of Design Flow	Solids Disposed (lb/day)	Hauling Schedule (days)
25	577	115
50	1153	57
75	1730	38
100	2306	29

Final Phase – 0.20 MGD		
Percent of Design Flow	Solids Disposed (lb/day)	Hauling Schedule (days)
25	808	180
50	1615	90
75	2423	60
100	3230	45

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ULTIMATE SLUDGE DISPOSAL

Sludge will be liquid hauled from the plant by a TCEQ registered sludge transporter to a TCEQ permitted land application site or another wastewater treatment plant.

A manifest will be issued with each load of sludge that is hauled from the plant. The following information will be on the manifest to document ultimate disposal of the sludge:

1. Date of sludge hauling
2. Generator Name
3. Generator's address
4. Volume of sludge hauled
5. Name of transporter
6. TCEQ transporter registration number
7. Driver's name
8. Name of disposal site
9. TCEQ Site permit number
10. Date of disposal
11. Volume of sludge disposed

This information, along with laboratory and field data will be used to determine the amount of solids disposed of in dry weight form.

The following attachments are not needed for the Northampton MUD WWTP TPDES Permit Renewal:

Buffer Zone Map

Water Ballance

Francesca Findlay

From: Jonathan Nguyen <jnguyen@quiddity.com>
Sent: Tuesday, September 3, 2024 9:03 AM
To: Francesca Findlay
Cc: Steve G. Barry PE
Subject: RE: WQ0010910001 Northampton Municipal Utility District
Attachments: Northampton MUD Spanish NORI.docx

Good morning Francesca,

Attached is the Spanish NORI. The NORI statement in the NOD is good to go. Let me know if you have any questions.

Thanks!

Jonathan Nguyen
Permitting Specialist
Email: jnguyen@quiddity.com
T: (512) 685-5156

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Friday, August 30, 2024 4:51 PM
To: Jonathan Nguyen <jnguyen@quiddity.com>
Cc: Steve G. Barry PE <sbarry@quiddity.com>
Subject: FW: WQ0010910001 Northampton Municipal Utility District

Dear Mr. Nguyen:

The attached Notice of Deficiency letter sent on August 30, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 14, 2024.

Thank you,

Fran Findlay

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Please consider whether it is necessary to print this e-mail

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